X

PROGRESS REPORT

OF

FOREST ADMINISTRATION

IN THE

NORTH-WESTERN PROVINCES AND OUDH

FOR

1876-77,

BY G. GREIG, ESQ.,
CONSERVATOR OF FORESTS, NORTH-WESTERN PROVINCES,
AND
CAPTAIN E. S. WOOD,
CONSERVATOR OF FORESTS, OUDH:

WITH REVIEWS BY THE LIEUTENANT-GOVERNOR

AND

ORDERS BY THE GOVERNMENT OF INDIA.

1878.

No 26F., dated the 11th January 1878.

From—The Officiating Secretary to the Government of India,

To—The Offg. Secy. to the Govt. of the North-Western Provinces and Oudh,

P. W. Dept., Forest Branch.

I AM directed to acknowledge the receipt of your endorsement No. 204F., dated the 24th October 1877, forwarding the Annual Report of Forest Administration in the North-Western Provinces for 1876-77, with the orders thereon by His Honour the Lieutenant-Governor.

2. The area of the reserved forests, at the close of 1875-76, was stated to have been 2,421 square miles in the report for that year. Owing to corrections made, that area appears in the present report as 2,564 square miles, which was increased during 1876-77 to 2,568 square miles. A statement should be entered in the next, or in a subsequent annual report, showing approximately the area stocked with sal, deodar, and other classes of forest.

3. In paragraph 7 of the orders on the report for 1875-76, it was remarked that the demarcation of the Gorakhpur Forests had not yet been completed. It is evident from what the Conservator states in paragraph 21 of his present report, that the boundaries of these reserves are not in a satisfactory condition, and it is hoped that the next report will show that steps have been taken to complete their demarcation.

4. From paragraph 18 it is gathered that a commencement has been made in the Dehra Dún Division to prepare the record of reserved forests prescribed in paragraph 74 of the Forest Department Code. The register of boundaries forms part of this record, and it is laid down that this should be illustrated by a map. The Conservator states that the prescribed maps will be obtained through Mr. O. Greig. But a survey of the Dehra Dún Forests on the scale of four inches to the mile has just been completed by the Superintendent of Forest Surveys, and it seems desirable that the Conservator should consult the Superintendent on the subject of the preparation of the maps required to illustrate the record of boundaries.

In paragraph 56 the Conservator mentions the existence of a large-scale map of almost the whole of the Ránikhet Forests, and states that those forests are to be surveyed afresh by the Forest Survey Branch. The attention of the Superintendent will be drawn to the Conservator's statement, and Captain Bailey will be requested, after consulting Mr. Greig, to report to the Government of the North-Western Provinces whether it is necessary to make a fresh survey of these forests, for which, as stated by the Conservator, a large-scale map already exists.

5. Good progress is reported to have been made in fire-protection, the area actually protected having increased from 195,968 acres at the end of the dry season of 1876 to 301,330 acres on the 30th June 1877. The detailed statements, which precede the summary printed on page 52, are interesting, but, unless His Honour should specially desire it, it seems unnecessary to print them in the annual report, provided the prescribed information is given in the summary.

6. The attention of the Military authorities will be drawn to the Conservator's statement recorded in paragraph 23 of his report, that the closed reserve near Ránikhet, upon which the future supply of fuel and grass to that station must mainly depend, will not be secure from fire while the enclosed plot of Khaniari remains a grazing ground, and people are allowed to pass to and fro through it. A portion of the reserves in the hills of Jaunsar has been protected since 1870, and fires have been kept out from a portion of the Bhagirathi deodar forests during a series of years, though no special outlay has been incurred on that account, and the areas have not hitherto been entered in the annual returns. It is also reported that the leased forests of Lambatach, Deota, and Datmir have been protected for some time. The area protected in all these leased forests should be included in future returns. In the hill forests of the North-west Himalaya it is believed that fire-protection is a comparatively easy task, which can be accomplished by means of ordinary care.

7. In the sal forests of the Dúns and outer valleys, on the other hand, it must always be difficult to ensure immunity from fire; and it is gratifying to find that 42,660 acres were added in Kumaun, nearly 10,000 acres in the Dehra Dún, and 11,000 acres in the Gorakhpur Division. In paragraph 26 of the orders by the Local Government on the report, it is said that there were only five cases of wilful injury to the forests by fire. It seems probable that only in five cases the offenders were discovered. From paragraph 24 of the Conservator's report it is evident that the indifferent success of fire-protection in East Kumaun was due entirely to the wilful firing of the forest. It is satisfactory to observe from paragraph 55 of the report, that the rules which were sanctioned as an experimental measure, in order to regulate the shooting and fishing by the men of the Gurkha Regiment stationed at Dehra Dún, are reported to have worked well. The further experience of the working these rules should be recorded in each annual report.

8. The returns of the areas protected from fire in last year's report do not agree with those recorded in that for 1876-77, but the Conservator admits that the returns of 1875-76 were not correct. The date when protection from fire in any area commenced is the last hot season in which the forest was burnt, and the meaning of the entry, that fire-protection commenced in 1873-74, is not obvious. Protection must have begun at the close of the hot season, either of 1873 or of 1874.

9. Last year's report stated the area of plantations at the close of the year as 1,734 acres, which has been corrected to 1,772 acres in the report now under review, increased by extensions during the year to 1,983 acres. Areas which are blank or imperfectly stocked should be excluded from these returns; and it is suggested that in all cases sufficient time be allowed to judge of the success attained before any extensions are entered. The return of plantations is needlessly encumbered with fractions of acres, which are not wanted. It is noticed from paragraph 27 of the report that the Conservator recognises the beneficial effect which the exclusion of cattle and fires has had upon the natural reproduction of the forest in the Deoban range.

10. From paragraph 26 it is gathered that improvement cuttings have been commenced in the closed forests of the Dehra Dún by thinning out all decaying, overspreading, and unpromising trees. The Conservator has doubtless reported to the Government of the North-Western Provinces the principles on which the selection of the trees cut out is made; and I am directed to suggest that a brief account of the progress of the operations, the average number of trees and quantity of wood cut per acre, as well as the amount expended and the revenue realised on account of these operations, should be recorded in each annual report. In paragraph 29 an account is given of the result of the improvement cuttings made in the Ramgarh block of the Gorakhpur Forests, which seems to be satisfactory.

11. The amount expended on communications and buildings was Rs. 53,795. Of this sum, Rs. 37,384 was expended on roads, bridges, and slides. In the Kumaun Division the Nindhore valley road from Choragalia to Durgapipal, 15 miles in length, is reported as completed. It is hoped that this important line will be kept up permanently.

In the Jaunsar Division the construction of numerous new roads and paths, and the erection of a new wire suspension-bridge at the foot of the Deota Forest, are reported, as well as the construction of a canal slide for the export of sleepers from that forest. What is said regarding these works seems to show that they were constructed with great skill and ability.

The remarks respecting the maintenance of the Bhagirathi valley road, recorded in paragraph 28 of the report, are not satisfactory. The orders conveyed in paragraph 14 of this office letter No. 543, dated the 11th May 1877, must, I am directed to state, be carried out; and a special report is awaited regarding the measures that have been taken to ensure the maintenance of this important road.

12. The results of the Government timber operations in the North-Western Provinces are detailed in statements 53 to 59. Two of the statements (55 and 56) are prescribed, but the form of the others is only suggested, and should be modified so as to suit the requirements of the North-Western Provinces.

Statement 53 is a return of the trees cut on Government account, and is understood to include the trees cut on fire-lines, as well as the improvement cuttings in the closed Dehra Dún and Gorakhpur Forests. The totals stand as follows :—

Sal	76,418 trees.
Deodar	6,547 „
Other kinds	51,261 „
Total ...	134,226 trees.

13. Of the sal it is understood that 25,775 trees were cut in the improvement thinnings in the Bulawala Forest in the Dehra Dún, with only 462 trees of other kinds. It is supposed that the object of these operations was to increase the proportion of sal, and to improve its growth. If this supposition is correct, then the cutting of so large a number of sal, and so few trees of other kinds, seems to require some explanation. The same may be said regarding the improvement cuttings in the Ramgarh block of the Gorakhpur Forests, where 46,747 sal trees are reported to have been cut.

14. Of the 6,547 deodar trees reported to have been felled in the Jaunsar and Bhagirathi Forests, 3,954 trees are stated to have been dead trees, so that the growing stock of mature deodar in the forests was diminished by 2,593 trees.

Statements 54 and 55, exhibiting the timber exported from the forests and that brought to depôts, are incomplete, in so far as the cubic contents of a considerable portion of the logs, sleepers, and other scantlings are not given. Statements 56 (annual timber account) and 57 (amount realised on account of the different classes of timber) are defective in the same manner, and hence the information recorded in these statements is incomplete and of little value. In future reports these defects should be remedied.

Statement No. 59, which exhibits the transactions of the Forest Administration with other public departments, is clear and intelligible. The amount of the timber sales to public departments effected during the year was Rs. 2,88,708, and the charges with which the timber sold is debited amounted to Rs. 2,40,690.

15. The receipts and charges during the year under review have been as follows :—

		Rs.	Rs.
Receipts	... ...		8,15,221
Charges	A ...	507,753	
	B ...	147,177	6,54,930
	Surplus ...		1,60,291

The unreserved forests in charge of the Forest Department in the North-Western Provinces are insignificant, and the forest revenue is entirely derived from the reserves and leased forests. Estimating the latter at 400 square miles, a gross revenue of Rs. 8,15,220 has been realised from 2,968 square miles, which is at the rate of Rs. 275 per square mile. The gross revenue of 1876-77 was, however, unusually small in the North-Western Provinces. The average of the five years preceding that under review was Rs. 12,72,226. The area of the reserved forests, though smaller in the earlier returns, has not materially changed since 1871-72; the average rate of gross revenue therefore during the five preceding years has been Rs. 428 per square mile.

16. The statements recorded in paragraph 53 of the Conservator's report, and in paragraph 1 of the orders of the Local Government, purport to exhibit the real net results of the transactions of the year; but the figures stated are not fully understood. The assets of the year have been increased by the addition of the outstandings on account of the year (minus bad debts), which are said to amount to Rs. 1,27,026. But the statements appended to the report give the outstandings at the close of the year as follows :—

	Rs.
Statement 51 on account of Contractors	61,509
Ditto 51 ditto Disbursers	43,957
Ditto 52 ditto Revenue	14,820
Total ...	1,20,286

From this, however, should be deducted the outstandings at the commencement of the year, which are understood to have been as follows :—

		Rs.
Statement 51 on account of Disbursers	... ...	54,899
Deduct on account of Contractors	...	23,516
Difference	...	31,383
Statement 52 on account of Revenue ...	... ...	24,721
Total	...	56,104

This would leave a balance of only Rs. 64,182 in favour of 1876-77.

The outstandings at the commencement of the year (*viz.*, Rs. 56,104) agree with the amount shown in statement 23 of the report for 1875-76. But from statement 26 of the same report it would appear that a further amount of Rs. 22,580 remained outstanding on account of timber sold, but not paid for during the year. Whatever the real outstandings at the commencement of the year may have been, they must obviously be taken into account in determining the net results of the transactions of the year. There are other entries in the statement in paragraph 53 of the Conservator's report which cannot be traced in the returns appended to the report, and, upon the whole, the Governor-General in Council is not disposed to attach much value to the calculation recorded in the passage quoted.

17. Statement 60 shows a slight reduction in the value of timber in hand at the close of the year, which is satisfactory. Efforts should be made to reduce these large stocks of timber at depôts. The cash balances are still large: they aggregated Rs. 51,492 at the commencement, and Rs. 54,646 at the close, of the year. In paragraph 55 of his report the Conservator explains that a considerable part of the revenue comes in at the close of the year, which swells the cash balance; and it is for consideration whether this might not, to some extent, be avoided.

18. It has already been explained, in paragraph 22 of the orders on last year's report, that the comparison of the actual receipts and charges with the estimates is out of place in the annual progress report of forest administration.

The Conservator, in the last paragraph of his report, mentions the numerous forms of the Forest Department Code, and the increase of office work caused thereby. It was not the intention of Government, when introducing the Forest Department Code and the present system of accounts, to increase office work, and any practical suggestions which may tend to simplify the forms and the procedure prescribed in the Code will be duly considered by the Government of India.

19. The arrangement of subjects in the present report leaves much to be desired. Fire-protection, for instance, is discussed under "Protection and improvement," and again under "General remarks." Several of the statements appended to the report contain a needless amount of detail; they are headed as appendices: in future they should be designated by the serial numbers prescribed in the Code.

20. Upon the whole, however, the Governor-General in Council is glad to be able to say that the present report gives unmistakable evidence of progress in the demarcation, protection, and improvement of the Government forests in the North-Western Provinces.

No. 27F.

COPY forwarded to the Superintendent of Forest Surveys with reference to paragraph 4.

No. 28F.

COPY, with a copy of the report, forwarded to the Military Department with reference to paragraph 6.

No. 263F.

GOVT., N.-W. P. AND OUDH,
PUBLIC WORKS DEPARTMENT.

FOREST.

ALLAHABAD, THE 24TH OCTOBER, 1877.

ANNUAL REPORT OF THE FOREST DEPARTMENT, N.-W. P., FOR 1876-77.

READ AGAIN—

Forest Report for 1875-76.

Budget-Estimate of Forest Department, North-Western Provinces, for 1876-77

READ—

Letter No. 100 of 1877-78, dated 30th July, 1877, from the Conservator of Forests, North-Western Provinces, forwarding Annual Administration Report of the North-Western Provinces, Forest Department

RESOLUTION.—The following are the Financial results for the year :—

	Rs.
Receipts	8,15,221
Expenditure	6,54,930
	1,60,291

The net results are obtained as follows :—

Realizations	8,15,221
Deduct—	
Realized on account of transactions of previous years ...	19,359
Balance ...	7,95,862
Add—	
Outstandings on account of the year minus bad debts ...	1,27,026
Value of year's transactions	9,22,888
Disbursements	6,54,930
Deduct—	
Disbursed on account of transactions of former periods ...	39,036
	6,15,894
Add—	
Due for transactions during the year under review ...	8,575
Real cost of the year's transactions	6,24,469
Hence—	
Value of the year's transactions	9,22,888
Cost	6,24,469
Net result of the year's transactions	2,98,419
Add—	
Difference of value of stock at commencement of year ...	3,011
	3,01,430
Deduct—	
Difference in value of timber*	4,775
Real net results of the transactions of the year ...	2,96,655

2. Comparing the actuals of 1876-77 with the regular estimate, we get—

	Regular estimate, 1876-77.	Actuals, 1876-77.	Difference.	
			More.	Less.
	Rs.	Rs.	Rs.	Rs.
Receipts	9,07,276	8,15,221	...	92,055
Expenditure	6,98,427	6,54,930	...	43,497
	2,08,849	1,60,291	...	48,558
Actuals less than was anticipated in regular estimate, ...	...	...	...	48,558

3. The actuals therefore were less than was anticipated by Rs. 48,558. The reduction being both in receipts and expenditure. Para. 52 of the report shows the actuals for the years from 1873-74 to 1876-77, the percentage for the year under consideration (·80) is exceptionally high. The Conservator explains that the high percentage is due in part to an advance made to contractors of Rs. 50,000 for sleepers to be delivered in 1877-78, but even subtracting the advance the percentage would stand at ·74 which is too high.

Revenue.

4. The actual revenue in each Division as compared with that shown in the regular estimate, is shown in the following table :—

	Regular estimate, 1876-77.	Actuals, 1876-77.	Difference.	
			More.	Less.
	Rs.	Rs.	Rs.	Rs.
Direction Division	5	594	589	...
Kumaun „ ... ... / Naini Tal Sub-division ... ... / Ránikhet „	2,38,255	2,48,061	9,806	...
Garhwál Division	1,73,250	1,40,323	...	32,927
Dehra Dún „	65,600	67,033	1,433	...
Jaunsár „	2,11,240	2,03,628	...	7,612
Bhágirathi „	1,63,050	87,964	...	75,086
Gorakhpur „	34,000	45,152	11,152	...
Jhánsi „	6,710	8,109	1,399	...
Rohilkhand „	15,166	14,356	...	810
Total ...	9,07,276	8,15,220	24,379	1,16,435
			Decrease ...	92,056

5. This shows a falling off of Rs. 92,056. The falling off in the Garhwál Division is explained by the fact of Mr. Colvin being incapacitated by ill health from carrying out his duties, but the Conservator nowhere explains the reason of the actuals being only little more than half of the regular estimate for the Bhágirathi Division.

6. The other Divisions have worked fairly up to the regular estimate.

7. Comparing the receipts for 1876-77, with those of the previous year, we get:—

	Revenue, 1875-76.	Revenue, 1876-77.	Difference. More.	Difference. Less.
	Rs.	Rs.	Rs.	Rs.
Direction Division	...	594	594	...
Kumaun „	2,76,517	2,18,166	...	58,351
Ránikhet Sub-Division	15.693	11,885	...	3,808
Naini Tal „	5,194	18,010	12,886	...
Garhwál Division	2,00,947	1,40,323	...	60,624
Dehra Dún „	67.521	67,033	...	488
Jaunsár „	2,22,247	2,03,628	...	18,619
Bhágirathi „	1,00,480	87,964	...	12,516
Gorakhpur „	49,378	45,152	...	4,226
Jhánsi „	6,617	8,109	1,492	...
Rohilkhand „	25,174	14,356	...	10,818
Total ...	9,69,698	8,15,220	14,972	1,69,450
		Decrease ...		1,54,478

8. The revenue from the Naini Tal Sub-division for the year under review is more than treble that for the previous year.

9. The total revenue for the current year is Rs. 1,54,478 less than that for 1875-76, the falling off being in the Garhwál and Bhágirathi Divisions.

Expenditure.

10. The following table compares the actual expenditure with the regular estimate of 1876-77:—

	Regular estimate, 1876-77.	Actuals, 1876-77.	Difference. More.	Difference. Less.
	Rs.	Rs.	Rs.	Rs.
Direction Division	31,310	29,594	...	1,716
Kumaun „	1,17,241	1,08,355	...	8,886
Garhwál „	1,00,291	83,784	...	16,507
Dehra Dún „	42,754	38,194	...	4,560
Jaunsár „	2,19,642	2,16,670	...	2,972
Bhágirathi „	1,52,463	1,43,220	...	9,243
Gorakhpur „	21,539	22,972	1,433	...
Jhánsi „	5,339	4,834	...	505
Rohilkhand „	7,848	7,308	...	540
Total ...	6,98,427	6,54,931	1,433	44,929
		Decrease ...		43,496

11. It is observed that while the receipts show a reduction of Rs. 92,056 on the regular estimate, the expenditure is only reduced by Rs. 43,496. The expenditure, however, is increased by an advance of Rs. 50,000 on account of sleepers for the Rajputana State Railway, and which has made the Bhágirathi Division appear to have worked at a loss, in the year under review.

Outstanding.

12. The table of outstandings and liabilities on account of contractors shows a sum of Rs. 70,084 due to the Forest Department against liabili-

ties to the extent of Rs. 8,575. The former item, however, includes the advance of Rs. 50,000 alluded to above.

Sleeper operations.

13. Para. 35 of the Conservator's Report shows that 1,04,965 deodar sleepers were supplied to State Railways from the Jaunsár Division. Further 50,000 sleepers were prepared in the Bhágirathi Division, 40,000 of these were launched and less than 20,000 ever reached their destination. It would have been better had the Conservator tried the experiment of floating large sleepers down the Bhágirathi on a smaller scale, and had not involved the State in the loss of 20,000 sleepers.

Timber in stock.

14. The value of timber in stock on the 31st March, 1877, was Rs. 3,72,747 as compared with Rs. 3,77,521 for 1876, and Rs. 3,91,828 in 1875, showing a steady decrease year by year which is satisfactory.

Timber sales.

15. The amount realized and due on account of sales of timber, firewood, and charcoal, amounts to Rs. 4,35,756. This sum when corrected by the necessary deductions and additions appears under budget head I., revenue on account of sales as Rs. 4,44,106.

Reserved and Unreserved Forests.

16. Referring to Form No. 45 of the Appendix it is noticed that the total area of reserved forest land on the 1st April, 1876, is shown as 2,563 square miles. Whereas in the report for the previous year, the total is given as 2,420 square miles, and again the unreserved forests are shown in the report under review as nine miles, and in the report for the previous year as 119 square miles.

17. The Conservator in his 19th para. however explains that the entry of 119 miles of unreserved forest in Jaunsár, in the report for 1875-76 was a mistake.

18. During the year under review, three miles in the Jhánsi Division only have been added to the reserve forests, and the totals now stand as follows:—

			Miles.	*Acres.*
Reserved forests	...	...	2,567	419
Unreserved „	...	...	9	51

Conservancy, Jungle Fires, &c.

19. During the dry season of 1877, 3,01,330 acres were actually protected as against 1,95,968 for 1876. The noticeable increases being in the Kumaun, Garhwál, and Dehra Dún Divisions.

20. The rules which regulate the shooting and fishing of the men of the Gurkha Regiment are working well, and not a single fire has taken place in the forests.

21. The attention of the Commissioner of Kumaun will be drawn to the necessity for affording every assistance to the forest officers in their endeavours to protect the forests in the Kumaun Bhábar from fire.

Plantations.

22. A good deal of planting has been done in the Naini Tal Sub-division and in the Gorakhpur Division, with a fair amount of success.

23. Mr. Craw's report on the Nursery under his charge, shows that 45,658 trees have been planted out in the forest of Jakdeo, Jainoli, and Ghirgamkhal, 15,000 deodars were sent to Naini Tal, 3,547 forest trees were made over gratis for planting in cantonments at Ránikhet, and 1,277 were given to private individuals, besides 1,387 fruit trees distributed gratis. The Nursery has further an ample stock of forest and fruit trees. to meet future requirements.

Roads, Bridges, and Buildings.

24. A great deal has been done in the way of constructing inspection paths and roads generally.

In the Kumaun Bhábar the Nindhore valley road has been extended 6½ miles.

In the Jaunsár Division the Conservator reports that the Tons suspension bridge (146 feet span) has been satisfactorily completed as also was the canal slide one mile, 3,420 feet in length. This work was undertaken with a view to opening up the Deota forest, to facilitate the supply of sleepers to the State Railways.

25. It is observed that the Conservator proposes taking over charge of the Bhágirathi road and has addressed the Commissioner of Kumaun regarding the payment into the treasury by the Raja of Tehri of Rs. 1,200 annually, the same being the proportion payable by the Raja towards the maintenance of the road. The attention of the Commissioner will be called to the desirableness of this arrangement.

Prosecution for breach of forest rules.

26. There were 393 prosecutions involving 866 persons, and convictions were obtained in 322 cases involving 718 persons. It is satisfactory to observe that there were only five cases of wilful injury to forests by fire.

27. The percentage of convictions obtained is also satisfactory.

GENERAL REMARKS.

28. Under this head the Conservator furnishes portion of the information required by the Government of India in the letter No. 543, dated 11th May, 1877, from the Secretary to the Government of India, Department of Revenue, Agriculture and Commerce. The attention of the Government of India will be drawn to the explanations given.

29. The gazetting of the forests generally and the preparation of registers of reserves is progressing favourably.

30. His Honour is gratified to observe that the Conservator speaks in very favourable terms of the officers of his Department. It is to be regretted, however, that the revenue of the Garhwál Division was less by Rs. 30,000 than it would have been, had not Mr. Colvin been prevented by ill health from paying proper attention to the working of his division.

31. It is satisfactory to note that Mr. Greig has found the working of his office subordinates worthy of praise.

32. In conclusion, the Lieutenant-Governor congratulates Mr. Grieg on the generally satisfactory working of the forests during the year under report.

No. 264F.

ORDERED that the foregoing with copy of report be forwarded to the Secretary to Government of India, Department of Revenue, Agriculture and Commerce.

Nos. 265-67F.

That copies be forwarded to the Commissioners of Meerut, Benares, and Jhansi, for information.

No. 268F.

That a copy be forwarded to the Commissioner of Rohilkhand, with special reference to paras. 21 and 25.

No. 269F.

That a copy be forwarded to the Conservator of Forests, North-Western Provinces, for information.

ALEX. FRASER, COL., R.E.,
Secretary.

Assistant Secretary.

N.-W. PROVINCES.

ANNUAL PROGRESS REPORT

OF

FOREST ADMINISTRATION

FOR THE YEAR 1876-77.

By George Greig, Esq., Conservator of Forests.

The Annual Report has been prepared in accordance with paras. 189, 190 and 191 of the Forest Department Code, which came into force on the 1st April, 1877.

I.—SUMMARY OF ADMINISTRATION DURING THE YEAR.

2. During my 5½ months in office I visited all the divisions except Bhágirathi, Gorakhpur and Jhánsi. Mr. O'Callaghan, Deputy Conservator, 1st grade, officiated as Conservator from the 4th May to 14th November, 1876, whilst I was on furlough.

3. Although nothing is mentioned in the Forest Code, I conclude that statistical data and forest legislation should be reported under this section.

STATISTICAL DATA.

4. There is nothing new to report.

FOREST LEGISLATION.

5. **Naini Tal Sub-Division.**—These forests have been gazetted as "reserved" (since the close of the official year) and brought under the working of the North-Western Provinces forest rules. Mr. Braidwood, Assistant Conservator, 1st grade, held charge of the sub-division (in addition to his duties as in charge of Conservator's office) throughout the year.

6. **Ranikhet Sub-Division.**—These forests have not yet been gazetted, but the draft notification is in course of preparation, and will be submitted to Government shortly. Mr. Pengelly, Officiating Deputy Conservator, 3rd grade, was in charge until June, when he was temporarily transferred to the Dehra Dún division, and Captain Campbell took charge of the sub-division in addition to his other duties. In November Mr. Pengelly again resumed charge and remained until February, when he was transferred to the Panjáb, and Mr. Craw, Superintendent of Orchards and Nurseries, took charge.

7. **Kumaun Bhabar Division.**—The draft notification of these forests was submitted to you on the 20th November, 1876, but has been delayed by the Commissioner. I believe that he has now agreed to the boundaries. Captain Campbell, Deputy Conservator, 3rd grade, was in charge throughout the year, assisted by Mr. Brereton, Deputy Conservator, 3rd grade, for three months, December to February, when he got ill.

8. **Garhwal Bhabar Division.**—It will be as well to state at once that full information cannot be given in this report for the Garhwál division; the Deputy Conservator, Mr. Colvin, was unfit for much work during the working season, and started for England on a year's leave on medical certificate, the end of May last, without submitting an annual report. A notification of the reserved forests in this division was published in the North-Western Provinces and Oudh Gazette of the 7th July, 1877.

Mr. Amery, Deputy Conservator, 2nd grade, was in charge during April 1876, but was relieved in May 1876 by Mr. Colvin, who held charge for the remainder of the year. He was assisted during the cold weather by Mr. Dansey, Assistant Conservator, who had charge of the fire conservancy and a portion of the timber works.

9. **Dehra Dun Division.**—The forests of this division have been gazetted as "reserved," and a portion of them as "closed" under sections VI. and VII. of the North-Western Provinces forest rules. Mr. O'Callaghan, Deputy Conservator, 2nd grade, (officiating 1st grade), was in charge throughout the year except from June to November, when he was Officiating Conservator of the North-Western Provinces, and Mr. Pengelly carried on the duties of the division. Mr. O. Greig, Assistant Conservator, 2nd grade, was the assistant, and he had charge of the Sewalik working circle, which is the portion of the division that is in the Saháranpur district.

10. **Jaunsar Division.**—It was stated in the report for 1875-76 that these forests had been gazetted as "reserved" and portions "closed" and brought under the working of the North-Western Provinces forest rules. As has been before reported, the rights of villagers in the open reserves (called 2nd class forests in the district papers) are recorded as follows :—

Rights to building timber.
" " wood for ploughs, &c.
" " fuel.
" " wood for torches.
" " leaves for feeding cattle.
" " bamboos, grass and grazing.

these rights being for their own use, and not saleable or transferable.

When the last settlement of Jaunsár was made, the forests had been so recently demarcated and the people were so upset at the idea of being forbidden to go into certain forests where formerly they grazed and cut as they pleased, that it was deemed impolitic to limit these rights beyond merely recording that the right-holders were to have a sufficiency of each article ; but, as deodar timber was scarce and valuable, to prevent waste a saving clause was inserted in the wajib-ul-arz, to the effect that deodar timber must be converted *by saw*, and not by axe.

It is now the duty of the Forest Department to make amicable arrangements with the villagers towards defining these rights more clearly, and this is being taken in hand by Mr. Bagshawe, the Deputy Conservator, than whom a more suitable officer for this delicate task could not be found.

Fifteen of the most influential of the syanas (headmen) have already consented to accept a *given number* of deodar trees per annum in place of "*a sufficiency*," provided they may convert them with the axe according to their "má-báp-ka-dastur," and if the remaining syanas agree, as we expect they will, it will be a great advantage to Government; arrangements can be made to meet a regular and known demand, whereas an irregular and very vaguely limited demand is liable to disarrange the best calculations.

Efforts are also being made to portion off the grazing in such a manner that certain forests which have to be worked for timber or fuel may be closed for a time until reproduction is ensured: connected with this is the burning of grassy slopes within the forest area, which at the settlement was very wisely placed under the control of the Forest Department; this control gives the forest officer considerable influence with the villagers, and Mr. Bagshawe exercises this influence most discreetly; he always allows them to burn grassy slopes where no damage can be done to the forests whenever they ask permission, provided they have been observant of the forest rules. Mr. Bagshawe, Deputy Conservator, 3rd grade, held charge during April 1876,

and from December 1876 to March 1877, and Mr. Rind, Assistant Conservator, 2nd grade, was in charge from May till November during the time Mr. Bagshawe was on furlough. The assistants during the year were Messrs. Dansey and Down, the former from April till November, and the latter from May till November.

11. **Bhagirathi Division** (leased forests).—Mr. O'Callaghan held charge during April and May, and Mr. Amery was in charge for the remainder of the year.

12. **Gorakhpur Division.**—As the forest officer was working so smoothly with the district officers, and there did not appear to be any *urgent* necessity for gazetting the forests, it was thought advisable to await the decision of Government on a question of retransferring some 15,000 acres of grass lands contiguous to the forests, which were transferred to the Revenue Department some years ago, before having the reserves gazetted. Mr. Grant, Assistant Conservator, 1st grade, was in charge of the division throughout the year.

II.—RESERVED FORESTS.

II.—1. AREA AND BOUNDARIES.

13. **Naini Tal Sub-Division.**—The area has been estimated by the Superintendent of forest surveys at about 38 square miles, but this includes about 8 square miles of village lands ; the boundaries are demarcated, but a few additional pillars are required where the forest boundary marches with the Iron Works Company's grant, and also along the revised boundary of the municipality, and round the 282 acres of land transferred for extension of the cantonment, as sanctioned by Government of India, Department of Revenue, Agriculture and Commerce, No. 569, dated 17th May, 1877, received with G. O. No. 124 F.-C., dated 5th June, 1877.

14. **Ranikhet Sub-Division.**—The area of the forests of this sub-division have been computed by the Superintendent of forest surveys at 67·02 square miles, the details of which will be found in form No. 45. The slight alteration in the area is due to more correct computation ; there was no change in the boundaries with the exception of some additional pillars erected round a portion of the "reserves" that was "closed."

15. Data are being collected in both these sub-divisions for the preparation of the register of reserves, and the surveys of the forests, to be undertaken by the Forest Survey Department this next autumn, will smooth many difficulties in the way of preparing the register.

16. **Kumaun Bhabar Division.**—The area of these forests, according to the draft notification which is before Government, and computed by the Superintendent of forest surveys, is 674·50 square miles, the details of which will be found in form No. 45. As soon as the forests are gazetted, and we know what we have, the Deputy Conservator will commence his register of reserves.

17. **Garhwal Bhabar Division.**—The area of these forests has been computed by the Superintendent of forest surveys as 559·50 square miles, the details of which will be found in form No. 45. Nothing was done by Mr. Colvin towards collecting data for the register of reserves, but Mr. Grant, the officer now in charge, will take up the case at once.

18. **Dehra Dun Division.**—The area of these forests has been computed by the Forest Survey Department as 563·73 square miles, the details of which will be found in form No. 45, and it will be observed that the areas differ in some cases from those given in para. 7 of the report for 1875-76.

The forests having been gazetted, and almost every disputed boundary case settled, the Deputy Conservator has now commenced the register of reserves ; he writes—"so many rights, &c., have to be very carefully entered that the divisional officer "proposes doing the manuscript portion during the ensuing rainy season recess, and

"to avail himself of Mr. O. Greig's training in the survey branch, to obtain the pre-"scribed maps for it during the same period." Straight and unmistakeable lines round the plots of land transferred to the revenue authorities in the Eastern Dún were marked off by temporary stone pillars, which will be replaced by masonry ones next winter, and the present ten feet lines will be widened to sixty feet; these lines have been arranged so as to secure to Government the valuable belts of shisham and khair on the banks of the Song, Suswa, and Jakhan.

19. **Jaunsar Division**.—There is no actual change in the area; in last year's annual report statements, the area of the Jaunsár forests were given as follows:—

Area of reserved forests ...	... 24·55	square miles.
„ unreserved „	... 119·62	„

this mistake has been rectified in this year's report, and the whole area is shown as "reserved." The Superintendent of the Dún was in Jaunsar in May 1877, with the Deputy Conservator, settling some internal forest boundaries; the settlement of these boundaries, and the new maps which are expected from the Forest Survey Department office next autumn, will help the forest officer very much in the preparation of his register of reserves, which he reports having commenced in five out of the eight ranges in his division.

20. **Bhagirathi Division.**—There is nothing new to report.

21. **Gorakhpur Division.**—There seems to have been some muddle about the record of the area of these forests.

For the last three years the area has been recorded as follows:—

			Square miles.
Para. 22, annual report for	1873-74	...	115·01
Statement of unreserved forests for	1873-74	...	125 25
„ „ „	1874-75	...	125·166*
Para. 10 of annual report for	1875-76	...	124·540
Statement of reserved forests for	1875-76	...	125·166

* Change from former statement accounted for.

The Assistant Conservator in charge now reports the area to be (to the best of his belief) 114·906 square miles, and as he states that this area has been computed from "survey plans," I think it had better be accepted until proved by more correct survey to be wrong. It appears that something more requires to be done towards demarcating the boundaries of the Gorakhpur forests, to make them quite secure against disputes. These forests are, as a rule, islands of forest in the midst of a large sea of cultivation, the edges of the forests being irregular zigzagging lines, then comes a belt of grass and then cultivation. Pillars were erected all round the forests some five years ago, and in most cases placed on the outermost points of the irregular edges, the Forest Department being under the impression that the boundaries of the forests were straight lines from pillar to pillar. Cultivators have lately advanced their cultivation in some cases into the grassy bays formed by the irregular edges of the forests, and it will have to be decided where the boundary line runs between the existing pillars (which I may mention are sometimes half a mile or more apart), and intermediate pillars must be erected.

A boundary dispute was raised in the West Lehra forest during the year, and was decided by the revenue authorities against the Forest Department, but the Assistant Conservator has not reported the area alienated by the decision, it was a trifling matter I am told. Another dispute of the same description has been raised in the Bari Bainsi forest and is before the Collector. It is important that these boundaries should be settled beyond reach of dispute, and I would suggest that the Collector be requested to do it next cold weather in concert with the forest officer.

II.—2. PROTECTION AND IMPROVEMENT.

22. **Naini Tal Sub-Division.**—There has not been any change in the protective establishment. Nine persons were fined Rs. 55 for firing the forests last summer, 71 jhampanies, coolies, &c., fined Rs. 75-10-0 for breaches of rules, lost tickets, &c. Charcoal burners and others, fined Rs. 70-2-10 for doing damage to the forests. Twenty-two confiscated axes were sold for Rs. 9-11-0. These fines were inflicted by the Assistant Conservator. A civil suit was instituted against a forest guard for the recovery of Rs. 60 of Government money, which has (since the close of the year) been decided against him with costs.

Owing to the continuous rain during the latter part of winter and throughout the spring and summer, this has been a very favourable year for fire conservancy, except in two instances it was not considered necessary to go to the expense of tracing fire lines, and watchers were not put on until the beginning of March; the whole of the forests of the sub-division have been preserved from fire this year. Para. 19 of last year's report mentioned that some cases of villagers having fired the forests were being investigated by the Assistant Commissioner; the headmen of the villages were ordered to render as much assistance as possible in putting out fires in future, and also to apprehend any person they find setting fire to the forests within their boundaries. In August 1875, a plot of about five acres on the south of Ayúrpátha that had been cleared for potato cultivation was sown with Morú (*Quercus dilatata*) and is doing very well, there being an average of about five healthy young trees in each seed-patch. I counted three lines in June 1877; there were 103 seed-patches, of which only three were blank.

In the small deodar nursery below Jhábar the seedlings were bedded out during the rains, and are doing very well. Some old potato fields on China were also sown with Ban (*Quercus incana*) acorns in 1875; pigs and porcupines rooting for the potatoes destroyed many of the plants; some of those that are left are growing fairly well, but the beds were not dug sufficiently deep, for that stiff clay soil and more than half will have to be resown this year.

At the commencement of the rains 15,148 deodar plants were obtained from the Ránikhet nursery and planted out on Jhábar Dhár, a slope facing the north-west and fairly well covered with oak coppice about 4 feet high, which has all been left standing: these are thriving splendidly; I never saw a more promising plantation; they are planted at about 8 feet apart, unfavourable ridges, &c., being left blank for the present. The area of the plantation is about 30 acres.

The acorns of *Quercus incana* and *Semecarpifolia* were an utter failure last year; they were destroyed on the trees by white maggots with black heads, and none could be got for seed.

Three and a half miles of inspection paths were made in addition to the nine and a quarter miles mentioned in last year's report, *viz*, the Pangoth road six feet wide and two and a quarter miles long, cost Rs. 205; the Dhúni Khál and Bhowali path extended one and a quarter miles, cost Rs. 60.

23. **Ranikhet Sub-Division.**—The protective establishment underwent no change. During the year the "closed reserve," which was mentioned in para. 5 of last year's annual report, and fully reported on in this office No. 257, dated 27th February, 1877, to your address, was securely fenced about half way round, and the fence will be completed as far as is necessary before the close of 1877-78. A path six feet in breadth was made outside the fence wherever there was fear of fire from outside, and interior paths were made to serve as fire lines and inspection paths. I am glad to be able to report that by these precautions the closed reserve was entirely preserved from fire. Since the close of the year the rights of way have been determined, and now the only obstacle to bringing this very valuable forest under proper conservancy

is the unfortunate existence in the very heart of the forest of the small plot (250 acres) called Khaniári, which the Military Department have so frequently been asked to give up. So long as Khaniári remains a grazing ground and people are allowed to pass to and from it through those dry pine forests, the closed reserve will never be secure from fire.

The plantation and nursery work is fully described in Mr. Craw's report, which here follows :—

2. "The following table shews the kinds of seed sown, the quantity of each kind and the source from which obtained.

Name	No.	Maunds.	Seers.	Source.
Chir	...	...	18	Local.
Ootish	...	...	18	"
Walnuts	49,500	...	..	"
Horse chesnut	...	4	20	"
Maple	...	...	4	"
Loquat	...	...	28	"
Ash	...	...	15	Naini Tal Division.
Spanish chesnut	7,825	...	...	India Office, London.
Eucalyptus	...	...	3	Australia.

3. "The chír seed was sown at Jakhdeo in drills between the lines of walnuts and horse chesnuts, but did not germinate freely, partly from the seed not being good and partly from drought. The ootish sown in beds in the nursery germinated well. The walnuts and horse chesnuts sown in drills are vegetating, and the seed being good, it may fairly be expected will produce a good percentage of plants. It is too early to speak with confidence of the ash, maple and eucalyptus, which are at present only appearing above ground.

4. "The Spanish chesnuts from the India Office, London, will, I am afraid, be less successful than the consignment of 1875-76. In reference to this consignment, *viz.*, three cases containing together 5,346 seeds received here the 24th February, 1876, I am now able to state precisely the number that vegetated; as usual with these and similar large seeds subjected to distant carriage, the period of vegetation is very irregular, some seeds appearing above ground soon after sowing, and others not until the rains have well set in; it occasionally happens too that the young shoot is injured by insects before it appears above ground, on which some time is required for its recovery and production of another shoot or shoots; hence what may at first appear unsatisfactory results, eventually proves the very opposite.

"In June, at the date of my report, 1,068 seeds had germinated, and at irregular periods all through the rains others appeared, eventually when the leaves had fallen and the plants were counted, there were 1,867. They have all survived the winter, have been transplanted into nursery lines, and are growing well.

5. "No acorns nor deodar seed have been sown this year, as the stock of these plants at present in the nursery is very large.

6. "The eucalyptus marginata sown the spring of 1876 vegetated badly, producing about 200 plants only, and this number has been reduced by frost to 28. This variety evidently is not so hard as globulus or sideroxylon.

7. "In addition to sowing seeds, hoeing, weeding and grafting fruit trees, the work of the nursery during the year comprised the transplanting into nursery lines of

about 70,000 gums and acacias, 2,60,000 deodar, 55,000 walnuts, and 9,000 miscellaneous forest trees; also 34,000 fruit tree stocks for grafting, and 2,000 Spanish chesnuts.

8. "The number and kinds of plants put out in forests during the year is as under, *viz.*, at—

Jákhdeo 28,976 gums, 12,190 acacias, total		...	41,166
Jainoli 2,900 strong deodar	"	...	2,900
Ghingárú Khál 600 deodar, 400 walnuts, and 592 horse chesnuts	"	...	1,592
	Total	...	45,658

9. "The gums and acacias at Jakhdeo have not succeeded as well as could be wished. Dry weather intervening before the work was completed, destroyed a number, and the severe frost of the past winter killed others. The deodar plants put out at Jainoli are all doing well, and the few plants put out at Ghingárú Khál on the piece of ground vacated by the baniah are also thriving, but a few of the deodar to fill in vacancies in former plantings have been killed by grubs.

10. "As, during your late visit to Ránikhet, you directed, I have cleared and stirred the earth round the stems of the young trees in Ghingárú Khál and Jainoli plantations. The good effect of this work is now apparent in the vigorous growth the trees are putting forth. Heavy snow greatly impeded the work, or Jákhdeo plantation also would have been completed within the official year. Work is now in progress there.

11. "During the rains 15,000 strong deodar plants were sent to the Naini Tál division, and in January, 100 deodar and 1,350 gums to the Kumaun Division.

12. "The following is a list of the forests and fruit trees distributed gratis during the year :—

To the Executive Engineer and Cantonment Committee to plant in cantonments at Ránikhet.

Forest Trees.

Deodar	...	...	...	726	
Walnut	...	...	...	568	
Horse chesnut		...	...	521	
Willow	...	...	...	335	
Oak	...	...	...	651	
Gum	...	...	...	219	
Acacia	...	...	...	330	
Miscellaneous		...	...	202	
					3,547

To householders and private parties.

Deodar	...	...	...	605	
Walnut	...	...	...	26	
Horse chesnut		...	...	74	
Willow	...	...	...	46	
Gum	...	...	...	397	
Miscellaneous		...	...	129	
					1,277
			Total of forest trees	...	4,824

To Cantonment Committee and Commanding Officer for station and soldiers' gardens.

Fruit Trees.

Pear	129	
Cherry	250	
Apricot	12	
		391

To householders and villagers.

Pear	431	
Apple	58	
Plum	72	
Apricot	163	
Cherry	250	
Spanish chesnut	22	
		996
Total of fruit trees ...		1,387

13. "The fruit trees sold are as under—

	Number.	Price.		Rs.	a.	p.
		Rs.	a.			
Apple	20	1	8	30	0	0
"	2	1	0	2	0	0
Pear	38	1	8	57	0	0
"	3	1	0	3	0	0
Plum	21	1	8	31	8	0
"	3	1	0	3	0	0
Cherry	39	1	8	58	8	0
"	1	1	0	1	0	0
Apricot	19	1	8	28	8	0
"	5	1	0	5	0	0
Spanish chesnut	6	1	8	9	0	0
Total ...	157	...		228	8	0

This list includes the trees supplied to Mr. Benson, December 1875.

14. "In addition, the Naini Tal municipality has been supplied with 80 pear trees, 12 plum, 50 apricot and 60 cherry, total 204 trees, value Rs. 275, for which a bill has been rendered. There is also an outstanding for Rs. 19 for 15 fruit trees supplied to Mr. Bellairs, tea planter.

15. "The stock of transplanted forest trees in the nursery consists of—

Deodar, large	4,680	
" small	2,55,882	
Walnut	53,599	
Chesnut (horse)	1,818	
Oak	85,244	
Ash	5,463	
Gum	52,655	
Acacia	13,282	
Willow	6,800	
Pinus excelsa, large	1,426	
Miscellaneous	8,368	
		4,89,217

16. "In seed beds ready to transplant about 45,000 one year old deodar seedlings.

17. "The stock of fruit trees comprises—

Apple, grafted	...	...	704	
„ stocks	...	...	1,046	
Pear, grafted	...	...	4,088	
„ stocks	...	...	12,609	
Apricot, budded	...	...	253	
„ stocks	...	...	13,338	
Plum, budded	...	...	205	
„ stocks	...	...	8,017	
Cherry, budded	...	...	2,458	
„ stocks	...	...	3,507	
Peach, budded	...	...	48	
„ stocks	...	...	170	
Loquat, enarched	...	...	6	
„ stocks	...	...	87	
Quince	...	...	25	
Mulberry	...	...	31	
Currant	...	...	58	
Spanish chesnut	...	...	2,104	
				48,754

18. "I regret to have to report considerable damage by snow to the large gum trees at the entrance to the nursery. There were two heavy falls, one in January, the other in February, the latter one the heaviest, which broke over all the heavy topped trees and laid all others nearly prostrate. The broken ones have been sawn off below the splinters and are now throwing out new leaders; the bent ones have not yet regained their erect position. These trees suffering so need however be no matter for surprise, as hundreds of large oak, chír and other trees in the forests had large branches broken off, and in some cases were bodily uprooted.

19. "The expenses of the nursery and the expenses incurred in planting and digging round trees in the plantations are embodied in the accounts of the sub-division."

A path six miles in length and about four feet broad was made right through the closed reserve, and this will eventually be widened to eight feet for export use, and the road from pillar No. 14 *viâ* Jákhdeo was carried on to the boundary of the closed reserve; these two roads are now the only authorized rights of way through this forest, every one of the village paths having been closed by order of the Commissioner. It may be mentioned that the question of "closing" other portions of the reserved forests is receiving the attention of this Government.

The cantonment forests are now being worked on a systematic system very similar to that in vogue at Naini Tal, under the supervision of the forest officer.

24. **Kumaun Bhabar Division.**—There was no change in the protective establishment. Form No. 48 shews that there were 188 cases of breaches of forest rules, in which 399 persons were involved; these were chiefly for evading the Government royalty on forest produce. Convictions were obtained in 143 cases including 304 persons.

Captain Campbell has again been most successful in his fire conservancy arrangements. The whole of the 51* square miles of the Mohan and Dulwa block between the Kosi and Rámganga rivers, which were protected last year, have again been preserved, with the exception of about eight acres at Daudni and 194 acres at Devi Chaur; and in addition to this, a contiguous bit of good sál forest on the Kosi near Kumaria, and a large and contiguous tract of sál forest south of the Dulwa range, were protected by kucha lines, making the total area of this block (west of the Kosi) about 70½ square miles, of which only about 202 acres were

*NOTE.—The area given in last year's annual report (56,380 acres) was a mistake, it should have been 32,640 acres.

burnt. A block of about 34 square miles of fine sál forest east of the Kosi was also attempted to be preserved by kucha lines; of this about 1·19 square miles were burnt before the commencement of the rains. These forests will eventually be protected by permanent lines *cleared of all trees*; but to clear the lines economically takes time; the first year exporters are allowed to convert and remove any trees they choose under the khám tahsil rates of royalty, the remaining trees being girdled by the fire conservancy contractors; these girdled trees left standing on the lines are less troublesome than if felled; the timber is not so liable to injury, and, as a rule, they do not throw out coppice shoots, they are afterwards disposed of as opportunities arise. In our hill sál forests the ground is very rough and much cut up by ravines and precipices. Commencing fire conservancy by "kucha lines" is a very good system; it opens out the forest and enables the officer to become acquainted with the natural features, and thus makes it comparatively easy for him to lay out his permanent fire lines; it also has the advantage of being cheap, and, if successful, considerable areas are preserved a year or so in advance of the time their protection would otherwise commence.

About 28·72 square miles of sál forests below the submontane road have been fenced, and attempted to be preserved from fire during the year, as follows:—In the Garibolchand forest two plots enclosed by rails and ditch, aggregating about 11·45 square miles, of which only about 10¼ acres were burnt, and all jungle burnt away from the outside, so that it was impossible for fire to get into it from the surrounding district forests. But notwithstanding this the whole block has been burnt with the exception of about 293 acres. Late one evening in June, just after the watchers had returned from their beats, fire broke out inside the fence on the eastern side, and there is but little doubt that the scoundrels who lighted it just waited for the watchers to be out of the way. There is no trace whatever of the offenders, but, from the reports he had received, the Deputy Conservator thinks it was done by the cattle-owners in the neighbourhood, in the hopes that in future the forests may be left open to grazing.

It is quite impossible to protect any forest if there are evil-disposed people in the neighbourhood determined to burn it, and I fear we shall have great difficulty in the lower forests of the Eastern Kumaun Bhábar unless the Commissioner supports us *very strongly*. East of Haldwáni and below the submontane road work was commenced on a plot of sál forest of about 13 square miles in the Sudlimat and Jaunla sál forests; it was fenced by rails or ditch on these sides, the submontane road being the northern boundary, and all the jungle was burnt away from the outside, but owing to the Nindhore valley road having taken longer to finish than was anticipated, no interior sub-division lines were cut.

On the 2nd and 12th May fires appeared inside the fence, but they were extinguished before much damage was done.

On the 21st May another fire was lighted inside the fence, which burnt the whole forest except about 1¼ square miles; the grass was very dry then, and it was impossible to put out the fire. The Deputy Conservator writes—"there are certainly great difficulties about the Eastern Kumaun forests, owing to the climate, and the character and habits of the people of those parts. I believe the fires were lighted purposely by the graziers in the neighbourhood.

2,534 creepers were cut by the rangers and patrols during the year.

In March last 1,450 blue gum seedlings were got down from Ránikhet and planted on some old fields at Dhúngalgarh, which is in the sál zone, but about 3,200 feet above the sea; some gums were tried at Mohan, an elevation of about 1,500 feet, and at the foot of the Dúngalgarh hill, they almost all died, and I am anxious to see if the increased elevation will suit them any better.

The Nindhore valley road was extended six and a half miles, and the work that remained to be done over the seven and a half miles made the year before was completed;

there is now a capital cart-road from Chorgalia right up the valley to Durga Pipal, 15 miles in length. All existing roads were kept in good repair, and many miles of paths were made along fire lines, which are very useful both for fire conservancy purposes, and for export of timber from the lines, and dry timber and bamboos from places hitherto inaccessible.

25. **Garhwal Division.**—The only change in the protective establishment was the dismissal of the depôt muharrir and the appointment of another man in his place.

There were 62 cases of breach of forest rules, of which 23 for unauthorized fellings and 31 for evading dues, &c., were settled by the divisional officer, the remaining eight cases were taken to the district courts and resulted in two convictions and six dismissals. The area attempted to be protected from fire during the year is estimated at 15,220 acres, *viz.*:—

Pátli Dún sál forest	...	...	...	12,800
Sisham kháta sál forest	...	...	...	1,920
Pápidánda khair ,,	...	...	...	500

These blocks were all saved with the exception of about 145 acres in the sisham kháta forest.

The mistake in the figures of the Garhwál division in appendix XVII. of the report for 1875-76, as noticed in para. 10 of the Government of India letter No. 543, dated 11th May, 1877, is, without doubt, *a mistake*. The area attempted to be protected was rightly given as 10,162 acres, but as 5,874 acres were burnt, the area actually protected was 4,288 acres.

A plot of about 47 acres of grass land in the Pátli Dún was sown with sál seed at the commencement of the rains, but the seed appears not to have germinated.

No new roads were made, but all existing roads and bridges were kept in repair.

26. **Dehra Dun Division.**—There was no alteration in the protective establishment. Fifteen prosecutions were instituted during the year, and 14 convictions obtained.

The 12 square miles of forest at Búláwála were preserved from fire, and the Deputy Conservator notes that although the season was favorable for fire conservancy, "this complete immunity was undoubtedly owing to the checks which were devised for the Gurkha soldiers."

The fine sál forest of Thánu was also surrounded by fire lines and completely protected, with the exception of about 10 acres of grass land between the Kurri Rao and the Gondiawala Khala; the area is 9·42 square miles. The right of way through this forest from the village of Thánu to Sangtiawala, which was formerly a winding tract, was converted into a perfectly straight road, which will serve both for fire conservancy and export.

South of the Sewaliks a plot of sál forest, 5·17 square miles in extent, was also preserved from fire. The sál which was sown on the small plot of ground near Búláwála as an experiment continues to thrive, and of the plantings at Landour, Colonel Campbell, the Officer Commanding the Depôt, writes as follows :—"Acting "under instructions from A. Pengelly, Esquire, Assistant Conservator of Forests, 53,900 "deodar seeds were sown during 1876, the majority of which germinated, but on "account of drought and for want of water (in the hot months), the young shoots "withered and died, although every possible care was taken by protecting them (from "the sun's rays) with branches and grass. 7,000 acorns were planted in 1876, and "in the same plot A. with a better result, as nearly the whole of them are flourishing "and promise oak trees, 4,000 horse chesnuts were planted as aforesaid, but it would "appear that these seeds are not indigenous to these hills, or the seeds were bad, as "most (if not all) have died. I would however state that the young deodars, cypress "and horse chesnuts planted in 1875, and which were favourably reported on by the

"Conservator of Forests in his No. 170 of 22nd November, 1875, to Secretary to "Government, North-Western Provinces, Forest Branch, Allahabad, para. 5, and "also in plot A., are progressing favourably, being more matured than the young "deodars and oaks above referred to. Several men last year under the superintendence "of the Depôt Sergeant-Major were employed planting seeds and tending the young "plants in question, and for this a very small outlay will (if necessary) be charged in "the cantonment fund as authorized, and it is to be hoped (with all the disadvan-"tages) that before next year the suggestion to plant in plot B. will be carried out "advantageously to Government. Altogether, I may add that the project has worked "well and with success."

A commencement was made towards improving the Búláwála "closed" forest; two compartments were thinned of all decaying, overcrowding, and unpromising trees, and all creepers were cut; the outturn from these thinnings is given under "yield and working." As it was the first year of this description of work, a third block was not undertaken, but now that it has been commenced and is understood, it can be carried on as fast as the requirements of the market will allow; these thinnings in "closed" forests will constitute the timber operations in the Dehra Dún division for many years to come, and as it is for the benefit of the forests to carry on the work as fast as possible, the area to be treated annually will depend almost entirely on the market demand.

In the forests of this division, which are situated outside the Sewalik hills, a system of *straight* roads leading to the lower forest collection chaukis was commenced by Mr. O. Greig, with a view of closing the numerous winding cart tracks leading to the plains, and thereby facilitating supervision, and lessening the opportunities for smuggling; this is a capital idea of Mr. O. Greig's, and it will be carried on year by year until completed. About 15½ miles of these roads were made during the year.

In the Dehra Dún division there are two rates for grazing—the lesser rate being for such villagers as have the privilege of grazing (on payment), and the higher rate for outsiders who have no claim. During the year a list of villages and numbers of cattle has been obtained from the Collector of the Sahúranpúr district, which will ensure that only such as are entitled to the privilege can now claim grazing in Government forests; the question of deciding which portions of the forests south of the Sewalik shall be left open for grazing, and which portions may be "closed" (free of all rights), is also in a fair way towards settlement; in fact, it would have been settled ere this if the Collector (Mr. Jenkinson) had remained at Sahúranpur for another month. A protection hedge along the Sub-Sewalik road from Hardwár to the Jumna was commenced during the year. Zizyphus jujuba (bér) seed was sown during the rains, and the young bushes are coming on well.

27. **Jaunsar Division.**—There have not been any changes in the protective establishment, but with a view to more systematic management, the forests have been divided for protective and working purposes into eight ranges as follows :—

1. Kálsi.	5. Búwar.
2. Deobán.	6. Deogár.
3. Bodiár.	7. Jaunsár.
4. Barálgád.	8. Deota.

Each range is bounded by natural features and masonry pillars, and is under charge of a "forester," who is responsible for all works within his range; he has a memorandum of the boundary of his range, its division into beats, a list of grazing and other rights, and of the portions of forest in which fires and grazing are prohibited, and other standing orders of this nature, and in some cases he also keeps the records of his range. There were 75 prosecutions during the year, involving 223 persons. Convictions were obtained in 68 cases including 214 persons.

The large fire that took place in June 1876, in the Chatrágadh and Kúnigadh chir forests (Báwar range) was mentioned in last year's report.

In the Deogár range about 20 acres of the Lambatach deodar forest were burnt through the carelessness of a forest guard when burning the fire line; the fire was fortunately extinguished before much damage was done. With this exception the whole of the forests protected in 1875-76 were preserved during 1876-77, including the leased forests of Lambatach, Deota and Dartmir.

Most of the forests of this division have been protected from fire for about eight years; this office No. 39, dated 22nd May, 1877, contained an inspection report on this subject, shewing the wonderfully good effects that have resulted, and therefore it is unnecessary to repeat those assertions here.

In the Deoban range, fir, oak and horse chesnuts have been planted in the Mohna and Matkangra blocks with very good results, and nearly the whole of Mohna, about half of Matkangra, and the whole of Thona have now been closed against grazing; Mohna has been preserved from fire and grazing for about eight years, and it is very gratifying to see the bare grassy slopes getting dotted over with little trees.

These forests are in the Deoban Working Circle, and are set apart for supplying Chakráta with fuel.

In the Bodiar range a large number of deodar seedlings were bedded out in nurseries; deodar seed and acorns were sown on favourable slopes in alternate patches, 18″ × 18″ × 1′ in size and 8 feet apart; the acorns were a failure, not above one in a hundred germinated, but both the bedded and seedling deodars are doing very well. Mr. Bagshawe and I counted seed patches in four different places last May, and the following is the result:—

Number of patches counted.				*Contained healthy seedlings.*
100	...	...	...	32
74	...	...	...	44
100	...	...	...	88
100	...	...	...	83

Many of these "patches" contained over a dozen seedlings; the 100 patches, of which only 32 contained seedlings, were on the very worst slope that has been sown. The Bodiar forest shews great improvement from fire conservancy and exclusion of grazing.

In Banálgád range a few deodars were planted out in the Konain forest last rains, but owing to the holes not having been dug quite deep enough, the plants are not doing very well; there is a large stock of very fine seedlings in the nursery which will be planted out during the rains of 1877-78. The improvement in the Konain forest from forest conservancy is just as apparent as elsewhere; nearly all the bare slopes, where grazing has been prohibited, and on which seed can fall, are covered with young growth; in some cases a second felling will soon be required, so much more rapidly has reproduction taken place than was anticipated.

In Báwar range the remainder of the deodars in the nursery were planted out and are doing very well, not more than about 3 per cent having failed. The nursery having been emptied, no more planting will be done here at present, as it has been resolved to concentrate the work in the Deoban Circle and Bodiar. Situated within this range are the fine pine forests of Chatrágadh and Kúnigadh, which have during the year been gazetted as "closed" under the North-Western Provinces forest rules.

In Deogár range there has been no planting, but a number of fire *paths* 2 feet wide have been made round the closed reserves, and more lined out; these paths render the forests safer when burning the lines, they define the boundaries of the closed forests as regards grazing, &c., and they are useful for inspection.

Within the Deota range is the Deota deodar forest, in which sleeper works were started the winter before last as mentioned in paragraph 24 of the report for 1875-76. Felling and thinning has been, and is being, carried out in a proper and systematic way, compartment by compartment; the forest has been all marked off into blocks, and a portion of it into compartments, and I was thoroughly satisfied with the work when inspecting it last May.

The Jaunsár range consists of all outlying forests and a large portion of the forests leased from Garhwál, and is directly under the charge of the Deputy Conservator. The most important forests of this range are the Dartmir and Banál deodar leased forests; from the former both fire and grazing were kept out, and the latter was preserved from fire.

The wire suspension bridge over the Tons at Tadyar (mentioned in paragraph 24 of last year's report) was completed very satisfactorily. It is the steadiest bridge of its kind I have ever crossed; the span is 146 feet, and the roadway 6 feet broad. All grains, stores, &c, for the Deota works cross the Tons by this bridge. Cost Rs. 2,864.

The canal slide, which was also mentioned in the same paragraph, was completed from Tadyar to Chabai, a distance of 1 mile and 3,420 feet. This slide is constructed on the same principle as the old Mandhol one. It discharges the sleepers into the Tons, whence they are floated down to the plains, the floating contractor taking over the sleepers at the head of the slide; the roadway was so carefully levelled, the curves so nicely graded, and the timbers so well fitted that the sleepers were sent down it without any mishap even at the opening trial. Of 31,974 sleepers sent down the slide during 1876-77, only 496 were damaged on arrival in the Dún, and probably at least ¾ths of them got damaged in the river. This work is a most perfect success; owing to the deep cuttings and heavy blasting it cost Rs. 11,450-6-9, but in comparison to the cost of carriage by men, there will be a saving of about Rs. 18,000 on 1,30,000 sleepers after allowing for the repairs and working for three years; it will float out an average of 2,000 10-feet sleepers a day. We propose extending this slide for about a mile further up towards the forest.

The Chakráta and Tons road was carried on to the Tadyar bridge, 4 miles long, and from 6 to 8 feet in breadth. Cost Rs. 956-11-0.

A road was made from the bridge up to Kat Kat in the Deota forest 6¾ miles long, and 8 to 10 feet in breadth, cost Rs. 3,512-5-3; this road was carried through some vrey precipitous greund, and the blasting work was very heavy.

Two roads were made in the Bhujkoti block of the Banálgád range, for exporting timber to Chakráta, as follows:—

				Rs.	a.	p.
No. 1, 6′ wide, 4,150 long, cost	...	...		170	11	6
„ 2, 2′ to 3 „ 6,500 „ „	...	...		51	0	0

The following roads were made in the Mohna block of the Deoban range for exporting firewood to Chakrata:—

						Rs.	a.	p.
Augargád road	4′ wide,	3,531	feet long,	cost	...	207	8	0
Patti to compartment No. 1	4′ „	759	„	„	...	15	0	0
Mohna patti	4′ „	2,145	„	„	...	27	0	0
Minday Dhar patti	4′ „	1,320	„	„	...	30	0	0
Patti from Deothal through compartments V. & IV. & III.	4′ „	800	„	„	...	19	15	0
Patti through compartment VIII.	4′ „	2,343	„	„	...	48	13	0
„ „ IX.	4′ „	1,287	„	„	...	26	13	0

In the Deota forest some small paths were made, costing Rs. 80-10-0, two godowns, and officers' quarters were also built, which cost Rs. 2,906-4-6.

28. **Bhagirathi Division.**—All the forests of this division are leased from the Tehri Rájá. There were no changes in the establishment during the year.

Seven prosecutions embracing 20 offenders were instituted in the Tehri Rájá's court, resulting in convictions in six cases embracing 19 persons. There was also one prosecution in British court which resulted in the man being convicted.

No special arrangements were made beyond warning the villagers against firing the forests and keeping a good watch ; one fire occurred during the year early in the season, but the Deputy Conservator reports that "no serious damage resulted from it."

The Hunnea wooden bridge above Harsíl was carried away during the winter, and was replaced by a temporary bridge put up by Mr. Wilson.

A pier of the Mechwa bridge (erected by an Engineer of the Public Works Department) gave way during the winter ; no material was lost, and the bridge has since been repaired.

Close to Barahat the road ran along the face of a loose rocky precipice rising perpendicularly from the river, and as this bit of the road was constantly slipping and becoming impassable, a new line was cut rising to about 400 feet above the old road ; length of the new road 4,500 feet, breadth six feet, cost Rs. 1,000.

Twice during the year the Rájá sent labour parties to repair the Bhágirathi road, but the work they did was very unsatisfactory, and all important repairs had to be done departmentally. I have again written to the Commissioner of Kumaun, asking him to request the Rájá to deposit Rs. 1,200 a year in the Dehra Dún treasury as his (the Rájá's) annual quota towards keeping the road in proper repair ; he agreed to do this some time ago.

29. **Gorakhpur Division.**—There was no change in the protective establishment. There were seven cases of breaches of forest rules, in which 12 persons were involved ; they were all disposed of by the divisional officer.

On the 5th June, 1877, the Assistant Conservator reported that of the total area of forests in his division (73,540 acres) only 600 acres of the Bhari Bhaban forest had been burnt. He also reports "a few bighas (about 50) were also burnt on the "boundary of the East Lehra forest, but as no damage was done, this need not be "counted."

The results of fire conservancy in this division appear to have been wrongly stated in the 1875-76 report. In his report for 1876-77, Mr. Grant writes that in 1875-76 "61,786 acres were saved against 11,754 acres burnt."

The following extract from Mr. Grant's report describes the plantation work that has been carried on in the Gorakhpur Division during the year :—

"13. **Blocks Nos. I. and IV. of Ramgarh.**—To understand about these blocks "I beg to refer you to the map accompanying your special report on this forest, "No. 217, dated 17th February, 1876, to Secretary to Government, in the Public "Works Department, North-Western Provinces. The trees I transplanted from the "nursery in block No. 1 in 1875, to plot "b" block IV., *viz.*, teak, tún, and sissu, are "most thriving ; also those planted out in the nursery enclosure, plots "c" and "d," "I sowed with teak seed in beds of 2′ × 2′, as agreed when you were with me ; it has not "yet come up, but I hope it will have done so before the end of the next rains. Plot "a" has given me some trouble ; you will remember that I transplanted sál seedlings "there, which failed, as I feared they would ; this year such young trees as I had in "the nursery, mostly sissu, I used for filling vacancies in the nursery enclosure and "in plot "b," so I had none left for plot "a"; I therefore sowed it with sál seed, which "was abundant this year, this however owing to the extraordinarily dry season never "germinated. Next I tried sissu seed, but though it came up freely owing to there

"being some rain, or rather occasional showers about that time, it was afterwards "mostly killed (judging from appearance though it may come up again) by a long "spell of hot dry weather. I shall now leave it until I see how the plots "c" and "d" "turn out; if successful, I shall be able to fill plot "a" with teak seedlings from them. "As should the seed come up, I shall have far more than I require in those plots.

"In block No. I. I planted out several acres with bamboo roots at the end of the "garden and outside the enclosure, and although wild pigs and drought killed many, "a good balance was left in healthy condition up to end of cold season, but I regret "to say that many of them have been killed since the hot weather set in by white ants "eating the roots. I also planted some in Nagwa and Sonari, the former failed through "being planted on too low ground, which became flooded during wet weather, but "those in the latter forest look well. I have also planted a good deal of sissu out in "these two forests; it seems to thrive well in these parts.

"The following will show the balance of young trees and bamboo still living, as "far as it is possible to make them out. Also the number destroyed by drought and "other causes. Of course this statement cannot be expected to be accurate:—

Description.	Planted out 1875-76 in 1876-77.	Killed by drought, &c.	Balance living.
Teak (Tectona grandis)	44,297	4,000	40,297
Tun (Cedrela tuna)	2,995	995	2,000
Sissu (Dalbergia sissu)	23,262	300	22,962
Bamboo (Bambusa)	2,692	1,355	1,337
Total ...	73,246	6,650	66,596

"The seeds sown during the year were sál, teak, sissu, bijasál, khair, and mango. "The sál and bijasál failed utterly from want of rain; sissu and khair came up, but "much died from the same cause; the teak not yet come up, but as it often takes long "to germinate, I am hopeful that it will do so after next rains; but the year under "review was a cruelly dry one for anything to do with plantation work. Even in the "forest, except in some shady spots, the sál seed never germinated, but was eaten "up by insects. I propose planting mango seedlings along the edges of the lines, "as I hope the shade from these trees may keep down the undergrowth and some "revenue be received from sale of the fruits."

All the lines in Rámgarh and Nagwa, as well as half of those in Sonári, were, cleared for fire conservancy. The portion of Sonári, which was preserved from fire in 1875-76, was cleared of all creepers during the year.

No mention appears to have been made in the annual report for 1875-76 of the thinning work that was commenced that year in the Rámgarh sál forest, the reason probably being that it had been so fully reported on in my inspection report (No. 217, dated 17th February, 1876.) Block No. I., which was thinned, and cleared of all crooked and overtopping trees during 1875-76, is reported to be looking "well and healthy," the seedlings and coppice coming "on well." Blocks No. II. and V. were thinned, and cleared of creepers during the year, the former during the rains, and the latter after, both being finished by the end of December. Mr. Grant reports—"as I was able to be constantly on the spot, both of these blocks have been well done, and the results are satisfactory." Block No. I. was closed in September 1876, No. II. was to be closed the end of May 1877, and No. V. will have to remain open a few months longer to clear off the firewood.

II.—3. YIELD AND WORKING.

30. **Naini Tal Sub-Division.**—Yielded—

Pine trees for building timber	618
Oaks for charcoal, 621 ordinary, 576 small, 85 dry, 18 rotten, ...	1,300
Oaks for lime burning	143
Inferior kinds of trees for lime burning	1,401
Poles of inferior kinds of trees	108
Ash trees	2
Tún trees	1
Total trees ...	3,573
Bamboos	1,200

Firewood from fallen and refuse timber, maunds 56,156. In addition to the above, which was supplied to the station of Naini Tal and charged for, the following were given *free*:—

To right-holding villagers—

Mature pine trees	62
Small ditto for poles	328
Small sál ditto ditto	45
Mature oak	3
Mature trees of inferior kinds	8
Small ditto ditto .. —	2,020
Total trees ...	2,466

To the Executive Engineer of Kumaun for repairing bridges, (lime burning)—

Mature oak	50
Mature trees of inferior kinds	60
Total trees ...	110

All trees to be felled are marked under the personal supervision of the Assistant Conservator.

31. **Ranikhet Sub-Division**—

Species of tree.	Removed by purchasers.		Free to villagers.	Total.
	Government.	The public.		
Pine (mature) over 5′ girth... ...	630	200	1,950	2,780
Pine (small) under 2½′ girth... ...	...	200	16,000	16,200
Other than pine	...	...	1,728	1,728
Total trees ...	630	400	19,678	20,708

75,009 maunds of firewood were supplied to the Commissariat, chiefly from fallen wood.

The enormous increase in the number of trees supplied to villagers is due to a district order requiring them to build cattle sheds apart from their dwelling-houses in place of having their cattle in the lower stories of the houses they live in ; this order was issued with a view of staying the plague (mahámari) which has been prevalent in Kumaun lately.

With a view of meeting the wishes of the Commissariat Officer, it was agreed to allow the Commissariat Department to collect their own firewood and pay this Department on their monthly issues to the troops; this arrangement came into force on the

1st April, 1876, and it was agreed that the system should be tried for one year as an experiment. The result is as follows:—

In 1875-76 there were two regiments at Ránikhet, and they consumed 1,90,000 maunds of fuel; this was weighed by the Forest Department before being handed over to the Commissariat Department.

In 1876-77 one regiment was at Ránikhet for the whole year, and one regiment for eight months. Based on the amount consumed the previous year, the calculation would be thus:— $\frac{12}{12} \times \frac{1,90,000}{1} = 1,58,333$ maunds. The Forest Department has been credited with 75,009 maunds. Owing to Mr. Pengelly's transfer to the Punjáb, and the amount of out-of-door work and reports he had to do during the few months preceding his departure, the case did not receive so much of his attention as it otherwise would have done. No other officer being available at the time Mr. Pengelly left, the sub-division was placed under charge of Mr. Craw, the Superintendent of nurseries, and it was not until quite lately that the matter was brought to my notice. Orders have now been issued to revert to the old system of weighments at the Forest Department chauki for the present, and to make arrangements to commence the Jaunsár system as soon as possible. By the Jaunsár system the firewood is collected at a convenient depôt by the Forest Department, and thence issued *by volume* to the Commissariat Department, the measurements of the different kinds of wood having been agreed to beforehand by both departments; in case of the Commissariat Department finding that their issues exceed the amount of wood taken over, they credit the Forest Department with the surplus, and *vice versâ*.

32. **Kumaun Bhábar Division**—Yielded—

Trees felled, sál ...	including fellings on fire lines	...	*1,225
Ditto other kinds		...	†1,946
Brought to depôt, sál		42,739	cubic feet.
Ditto other kinds		43,870	„
Removed by purchasers, 1st class timber ...		124,453	„
Ditto, 2nd class		22,391	„

The chír (*Pinus longifolia*) and dhowra (*Lagerstrœmia parviflora*) were cut for sleepers for the Scindia State Railway: the fellings in the forests were very light, the working being confined chiefly to the trees on the fire lines. Exporters were allowed to saw up the timber on the lines, the best of the lines having been previously worked by Government agency; this system answered well; exporters sawed up much hollow and inferior timber which Government sawyers, who work by contract, would not have touched.

33. **Garhwal Bhabar Division**—Yielded—

Trees felled, sál	214
„ sein	2,072
„ báukli	30
„ inferior kinds	17,800

The above list does not include fellings on fire lines. The sál trees were required for conversion into sleepers for the Scindia Railway.

The sein and báukli were cut on indent.

The inferior kinds were poles of various sizes for the Ganges Canal.

34. **Dehra Dun Division**—Yielded—

Trees felled, sál	25,175
„ inferior kinds	462

These numbers represent the trees felled in the two blocks of Búlawála mentioned in para. 26.

* 226 of these were given free to villagers in accordance with their rights.

† 32 of these were removed by purchasers and two given free to villagers.

35. **Jaunsar Division—Yielded—**

Trees felled, for the Public Works Department at Chakráta :—

Deodar (green)	830
„ (dead)	123
Spruce fir	380
Pinus excelsa	50
For sleepers.	
Deodar (green)	921
„ (dry)	842
For the public market.	
Pinus longifolia	406

The following timbers were sold to the Public Works Department and to private individuals in Chakráta :—

	Cubic feet.		Rs.
Deodar scantlings ...	20,396	value	28,248
Fir „	8,283	„	7,639
To State Railways.			
Deodar sleepers	1,04,965	„	1,20,292
To public market.			
Pinus longifolia scantlings ...	3,031	„	2,353
Fuel to Chakráta.			
Oak and fir	1,92,904	„	33,576

To meet their rights in the reserved forests, the Jaunsár villagers were granted the following trees :—

Deodar green trees	148
„ pieces from fallen trees	4,476
Fir and pine trees	288
Other trees	25
Poles of sál	7
Poles of inferior kinds of trees	800

36. **Bhagirathi Division—Yielded—**

Trees felled, deodar (green)	854
„ „ (dead)	2,977

These trees were felled to supply 10′ × 10″ × 5″ sleepers to the Scindia Railway. The work is done by contract; 50,000 of the 10′ sleepers and 6,762 of 6′ × 8″ × 4″ sleepers were prepared.

This was the first attempt that has ever been made to float out ten feet sleepers in the Bhágirathi; of 40,000 launched only 19,859 first class sleepers reached Agra, 5,000 were stranded in the upper parts of the river, leaving about 15,000 to be accounted for by the broken pieces which lie scattered all along the banks; the Bhágirathi is evidently unsuited for floating that sized scantling, and it will not be tried again; the narrow guage sleepers and logs come down fairly well.

Of the green trees felled during the year, 615 remained in the forests unconverted, some logs of previous year's fellings, which were lying in the river bed, were converted into sleepers.

The following is a list of the trees granted to villagers under their rights reserved in the lease :—

Description of tree.	Green.	Dry.	Total.
Deodars	686	167	853
Other timber trees	487	...	487
Total ...	1,173	167	1,340

37. **Gorakhpur Division**—Yielded—

Sál trees of various sizes	...	...	...	46,747
Sein „ „ „ „	...	...	...	24,629
Inferior kinds „ „	...	...	...	2,166

The whole of the sál trees came from the thinnings of blocks I., II. and V. of the Rámgarh forest, 14,138 were sold on the ground, 23,923 were carted to depôts, and 8,686 remained in the forest.

The sein trees were cut in the Nagwa forest and were sold on the ground.

The inferior kinds of trees were all sold on the ground. Mr. Grant was also very successful in disposing of his firewood from the Rámgarh thinnings; he sold Rs. 6,887 worth during the year: this fuel all went into Gorakhpur.

Some 4,000 logs of sál timber were exported from Nipál through Gorakhpur during the year, and private forests were being sold at the low rate of Rs. 25 per bígha. Most of the Nipál timber and a large quantity of what was cut on private lands was sent down country towards Dinapur and Patna.

II.—3. A. Forests under charge of Revenue Officers.

38. **Bijnor Forests.**—Both the Chándi and Rehar forests have been proclaimed to be reserved forests by notification in the *Government Gazette*.

The area of these forests now stands as follows:—

Area of reserved forests	...	...	86·08 square miles.
„ unreserved „	...	...	9·08 „

With regard to the three plots within the boundaries of the waste lands grants of Amsote, Kamálpur, and Mohanwála, the Collector writes:—"The present circumstances "do not permit them to be proclaimed at present as "reserved," for their boundaries "are in no case clearly and unmistakeably laid down, and in one case, Kamálpur, "private rights are mixed up with Government rights and cannot be separated for the "next 15 years. In Amsote and Mohanwála the forests have just become the sole "property of Government, and will have to be demarcated next cold weather; after "demarcation they can be reserved."

No change has been reported in the protective establishment. There were two cases of breach of forest rules, in both of which the offenders were convicted.

The Collector reports that the portion of the Rehar forest (15,719 acres), which was protected from fire in 1875-76, has again been successfully preserved; he has not stated the cost. I have written to him about the cost, and have also enquired which portion of the Rehar forest was commenced to be protected in "May 1864," and how the sum of Rs. 3,853, which was reported as the cost of protection up to the 30th June, 1876, was expended, for I have never seen any fire lines or anything to lead me to suppose that any portion of the Rehar forest had been attempted to be protected from fire. Having been on furlough when the 1875-76 annual report was written, this matter escaped my notice until now.

The usual annual leases of the forests were renewed in 1876-77 without any change in the number or nature of them.

The yield of the Rehar forest was 2,723 sál poles and 1,641 pieces of drift and waif wood.

39. **Bareilly Forests.**—These forests have not yet been gazetted, they have recently been handed over to the Conservator of Oudh. I wrote a long report on them in February last.

There has not been any change in the area or in the protective establishment, and there were no prosecutions during the year.

40. **Jhansi Forests.**—The Jhánsi forests have not yet been gazetted, as a question has yet to be settled regarding certain outlying small patches, whether they shall be retained under the Forest Department, or handed over to the Revenue Department. This question is being attended to, and will be decided shortly.

The Assistant Commissioner reports that, by some oversight, the Bangawán forest on the left bank of the Betwa has never been demarcated; and he suggests that the portion of this forest on the banks of the river, which is covered with numerous promising teak trees, should be closed and conserved. He has been written to and requested to have the Bangawán forest demarcated next cold weather, and also to take steps to "close" the portion he names.

There was no change in the protective establishment.

There were six cases of prosecutions for breach of forest rules, of which five cases resulted in convictions.

The 726 acres of Dúkwán forest and the 100 acres of Súkwán have again been protected from fire at a cost of Rs. 150.

The area of plantations was not increased.

The yield of the forests is reported to have been 1,961 poles, and 5,135 bamboos.

41. **Lalitpur Forests.**—The draft notification of these forests has been sent to Government for publication in the gazette: the area is 93,145 acres and 24 poles = 145·539 square miles. In last year's report the area was given at 145·42 square miles; this was a clerical error.

With reference to para. 8 of the Government of India orders on the annual report for 1875-76 (No. 543, dated 11th May, 1877), the "2·8 square miles under unreserved forests" are in the *Jhánsi* (not Lalitpur) district.

As regards the Lalitpur forests being diminished by 101 square miles, I beg to refer you to my report on the Jhánsi and Lalitpur forests (No. 211, dated 8th February, 1876.) In 1875-76 the Commissioner ordered that the best portions of the "unenclosed forests" should be marked off, and the remainder handed over to villagers. This reduced the area of forests from 296 to 145 square miles.

There has not been any change in the protective establishment.

There were 30 prosecutions for breaches of forest rules, in which 31 persons were implicated; of these, 30 persons were convicted, and one acquitted under the provisions of Section 17, Act VII., the case having occurred more than six months before it was reported.

The 1,749 acres of the Deogarh and Garauli forest, which were protected from fire last year, were again preserved during 1876-77 at a cost of Rs. 100.

Major Liston, the Deputy Commissioner, reports:—"The iron smelters are allowed "by their contracts to cut wood for charcoal; this the forest darogah, Muhammad "Hussain, has turned to a good use by getting them to clear the teak forests, the con-"sequence being, that light and air being given to the teak trees, they have during "the last two years improved wonderfully."

The depôts established by the Deputy Commissioner are succeeding admirably, as will be seen by the following statement of sales for the last four years:—

1873-74.	1874-75.	1875-76.	1876-77.
Rs.	Rs.	Rs.	Rs.
44	587	703	923

Want of carriage has been the difficulty hitherto, but this will to a great measure be removed in 1877-78, as arrangements are being made for building carts.

The sale of timber and bamboos from the forests has also risen from Rs. 969 in 1875-76 to Rs. 1,955 in 1876-77. Sales of minor forest produce having also risen from Rs. 568 in 1875-76 to Rs. 751 in 1876-77.

II.—4. FINANCIAL RESULTS.

42. **Naini Tal Sub-division.**—The accounts of this sub-division show—

	Actuals, 1875-76.	Actuals, 1876-77.	Percentage of expenditure to receipts 1875 76.	Percentage of expenditure to receipts 1876-77.
	Rs.	Rs.		
Receipts	5,124	18,010	·565	·471
Expenditure	2,900	8,493		

Detail of Revenue.

					Rs.	a.	p.
I. 1. (*b.*)	18,080 maunds 40 lbs. fuel for Commissariat Department @ 31-4 = ...				5,650	2	5
	80 maunds 31½ seers fuel to Bazar @ 3½ per rupee = ...				23	0	3
	All fallen and refuse timber ...				5,673	2	8
I. 2. (*a.*)	618 chir trees for building				3,291	0	0
	1,200 bamboos				10	10	4
	108 kokath ballies				57	12	0
	1 tún tree				2	0	0
	53 cubic feet ash				26	8	0
	6 chappars				6	0	0
					3,393	14	4
I. 2. (*b.*)	37,994½ maunds fuel at 6-4 (part at 3-2) ...				2,362	6	6
	Contract for chir charcoal				135	0	0
		Rs.	a.	p.			
	2,267 Jhampanis' tickets ...	1,133	8	0			
	444 coolies ,, ...	111	0	0			
	232 ,, Sunday only ...	14	8	0			
					1,259	0	0
	Station charcoal 14,000 maunds at 0-2-0	1,659	6	0			
	85 dry, 621 ordinary, 576 small, 18 rotten trees	481	15	6			
	Brewery charcoal, 190 kokath trees, 859½ maunds ...	107	7	0			
					2,248	12	6
	Fuel for lime	20	0	0			
	143 oak, 440 maunds at 10 per 100 maunds	44	0	0			
	1,211 kokath, large and small, 22,900 maunds at 8 per 100 maunds	1,760	0	0			
					1,824	0	0
	I. 2. (*b.*) ...				7,829	3	0
II. 1.	Grazing				140	0	0
II. 2.	Contract for chir tar				180	0	0
IV. 1.	Fines				210	7	10
IV. 2.	Refunds				12	0	0
IV. 3.	Potato cultivation				571	4	0

The results of this year are better even than those of 1875-76; great credit is due to Mr. Braidwood for his excellent management.

The outstandings at close of year amounted to Rs. 225-2-0, whilst the liabilities were only Rs. 6.

43. **Ranikhet Sub-division.**—The accounts of this sub-division show—

	Actuals, 1875-76.	Actuals, 1876-77.	Percentage of expenditure to receipts, 1875-76.	Percentage of expenditure to receipts, 1876-77.
	Rs.	Rs.		
Receipts	15 693	11,885	·998	1·343
Expenditure	15 673	15,963		

DETAIL OF REVENUE.

		Rs. a. p.	Rs. a. p.
I. 2. (*a*.)	632 chir trees for building to Public Works Department ...	5,085 6 0	
	275 chir trees for building to bazar	1,056 8 6	
	Charpoy dues, &c, ...	8 15 0	
			6,150 13 6
I. 2. (*b*.)	75,009 maunds = lb 82 fuel for Commissariat Department, @ 0-1-0 per maund ...	4,688 1 0	
	466 maunds fuel to bazar ...	29 2 0	
			4,717 3 0
II. 1.	Grazing dues	... ...	72 4 0
II. 2.	Fir tar and other minor produce	... ...	293 7 9
IV. 1.	Fines	... ...	25 0 0
IV. 2.	Refunds	... ...	1 8 6
IV. 3.	Other sources	... ...	625 2 0

The falling off in revenue is due to a decrease of Rs. 5,036 (as compared with 1875-76) in amount of fuel used by the Commissariat Department, see para. 31. As regards expenditure there was an extraordinary charge of Rs. 3,466, paid as compensation for land taken up within the closed reserve, but that was counterbalanced by the sub-division not having had to pay an officer for seven months. I think that Ránikhet will begin to show a small surplus the year after next when the system of supplying fuel by departmental agency has got into proper working trim.

There were no outstandings or liabilities at the close of the year.

44. **Kumaun Bhabar Division.**—The accounts of this division show:—

	Actuals, 1875-76.	Actuals, 1876-77.	Percentage of expenditure to receipts, 1875-76	Percentage of expenditure to receipts, 1876-77.
	Rs.	Rs.		
Receipts	2,65,142	2,18,166	·342	·384
Expenditure	90,911	83,899		

N. B.—The Naini Tal and Ranikhet accounts are not included in the Kumaun actuals for 1876-77.

Details of Revenue.

Head I. 1. (*a.*) Timber and bamboos brought to depôt by departmental agency.

	Rs.	a.	p.	Rs.	a.	p.
Sál logs	14,130	6	7			
„ kolús	92	0	10			
„ beams	47	11	9			
„ sleepers	759	14	0			
„ karis	44,864	14	10			
„ planks	1,344	11	9			
„ joras	1,466	11	9			
„ gindas	854	9	5			
„ ballis	573	3	0			
Sein karis	1,665	5	11			
Haldú karis	3,138	8	7			
„ botas	602	1	0			
„ logs	189	11	7			
Dhauri and baukli karis ...	274	10	7			
Dhauri logs	509	7	0			
Tún planks	82	10	8			
Jaman karis	1,725	12	7			
„ logs	...					
Sein logs	489	5	0			
Chir karis	312	6	5			
Katrúkh karis	2,451	3	6			
Bahera logs	166	7	4			
Chír sleepers	12,825	0	0			
				88,566	14	1

Head I. 2. (*a.*) Wood and bamboos removed from the forests by purchasers:—

Trees, bánsás, ballis, &c. ...	16,303	3	1			
Tor golas, &c.	66,424	13	6			
Bamboos	15,181	8	7			
				97,909	9	2

Head I. 2. (*b.*) Firewood and charcoal removed by purchasers:—

	Firewood and charcoal ...	...	4,514	13	5
„ I. 3.	Confiscated, drift, and waif wood	...	490	5	6
„ II. 1.	Grazing dues and sale of grass	...	8,329	5	2
„ II. 2.	Other minor produce ...	...	16,743	13	3
„ IV. 1.	Fines and forfeitures ...	...	1,576	7	11
„ IV. 2.	Refunds to the department ...	...	16	15	3
„ IV. 3.	Other sources	...	18	2	4

Considering the loss of about Rs. 15,000 of revenue from the Iron Works Company's forests having been handed over to the Commissioner, and the general slackness of demand for large timber in the Kumaun division has given a capital revenue as usual.

The sale of *scantlings* from depôts is but very little less than in 1875-76, but whereas sál logs fetched Rs. 45,000 that year, only Rs. 14,000 worth have been sold in 1876-77. The stock remaining in depôts is not however large, and the cuttings of the year were limited.

The sales at the Moradabad depôt were more than double those of the previous year, but no doubt the increase there caused a decrease at the Rámnagar depôt.

The following statement shows the sales at both depôts for the last two years :—

	1875-76. Rs.	1876-77 Rs.
Rámnagar depôt ...	1,03,232	67,568
Moradabad „ ...	10,905	23,623

The Moradabad depôt is certainly a convenience to the public, for timber can be obtained from it at any time, whereas carting is impracticable from the Rámnagar depôt from the commencement of the rains until November, but on the other hand it gives a good deal of extra work, and it is rather doubtful if it pays; I think, however, it should be kept up for another year's trial. The revenue from dry wood removed from the forests by purchasers is somewhat more than was expected, but it is decreasing every year.

The revenue from bamboos was a good deal more than the previous year.

Limestone was lessened by about Rs. 6,000 from the iron works forests having been made over to the Commissioner.

Manufacture of catechu, which used to bring in a large revenue in Kumaun, has been entirely stopped owing to the destruction it caused in the khair forests.

The outstandings at the close of the year were—

	Rs.
Due on account of contractors	3,105
„ „ „ „ disbursers	11,118

This money is all recoverable.

There were no liabilities.

45. **Garhwal Bhabar Division.**—The accounts of this division show—

	Actuals, 1875-76.	Actuals, 1876-77.	Percentage of expenditure to receipts, 1875-76.	Percentage of expenditure to receipts, 1876-77.
	Rs.	Rs.		
Receipts	2,00,947	1,40,323	·423	·597
Expenditure	85,194	83,783		

DETAILS OF REVENUE.

		Rs. a. p.	Rs. a. p.
Head I. 1. (*a*.)	Sal karis	15,716 13 1	
	„ joras	1,314 3 11	
	„ logs	144 9 9	
	„ kolús	19 12 6	
	„ beams	5,289 4 7	
	„ sleepers	3,395 12 2	
	„ butts	42 11 5	
	„ planks...	52 8 0	
	Sein logs	15 10 0	
	Sein and kokath karis ...	18,362 10 0	
	Bamboos	1,945 1 1	
			46,299 0 6
„ I. 2. (*a*.)	Timber	27,356 13 0	
	Bamboos	54,923 15 11	
			82,280 12 11
„ I. 2. (*b*.)	Firewood	...	752 6 6
„ I. 3.	Confiscated, drift, and waif wood	...	403 12 0
„ II. 1.	Grazing dues and sale of grass	...	5,231 0 4
„ II. 2.	Other minor produce ...	...	3,735 6 9
„ IV. 1.	Fines and forfeitures ...	...	587 3 4
„ IV. 2.	Refunds to the department ...	...	858 1 2
„ IV. 3.	Other sources	...	175 4 0

The results of the Garhwál division are extremely unsatisfactory; Mr. Colvin's state of health during the working season rendered him quite unfit to have charge of a division, and the amount of revenue collected speaks well for Parja, the superintendent of the khám tahsil, and the efficiency of the native subordinate establishment. Charges to the extent of about Rs. 14,600 for work done in 1876-77 were left unpaid by Mr. Colvin, and had to be paid from the budget allotment for 1877-78; had this amount been paid in 1876-77, it would have increased the percentage of expenditure to receipts to ·701.

The outstandings at the close of the year were :—

Due on account of contractors	...	Rs. 8,071
,, ,, ,, ,, disbursers	...	,, 1,450

These sums are recoverable with the exception of Rs. 1,787-0-10 due on a decree obtained against Sher Singh; it is doubtful if this will be recovered from the man's estate. There were no liabilities.

46. **Dehra Dun Division.**—The accounts of this division show —

	Actuals, 1875-76.	Actuals, 1876-77.	Percentage of expenditure to receipts, 1875-76.	Percentage of expenditure to receipts, 1876-77.
	Rs.	Rs.		
Receipts	67,521	67,033	·377	·569
Expenditure	25,471	38,194		

DETAILS OF REVENUE.

		Rs. a. p.	Rs. a. p.
Head I. 1 (*a.*)	Sál tors	987 4 10	
	Kokath planks and ballas ...	210 12 0	
	,, tarans	87 8 0	
	Advance for timber	3,000 0 0	
			4,285 8 10
,, I. 1 (*b.*)	Firewood and charcoal ...	...	1,148 6 0
,, I. 2 (*a.*)	Timber and bamboos removed by purchasers	...	29,714 14 1
,, I. 2 (*b.*)	Firewood and charcoal removed by purchasers	...	8,552 9 9
,, I. 3.	Confiscated, drift, and waif wood	...	56 12 6
,, II. 1.	Grazing dues and sale of grass	...	16,300 8 3
,, II. 2.	Other minor produce ...	...	6,365 9 7
,, IV. 1.	Fines and forfeitures ...	...	211 9 0
,, IV. 2.	Refunds to the department ...	...	287 4 9
,, IV. 3.	Other sources	...	109 10 5

The receipts of the year amount to within Rs. 500 of 1875-76, although depôt sales (I. 1*a.*) were about Rs. 5,400 less, this amount having been made up by increased sales under I. 2. (*a.*) There is an increase of expenditure under A. of over Rs. 8,000, and under B. of about Rs. 4,400, but this extra expenditure is justified by the large stock of timber on hand at the close of the year :—

Stock in hand at close of year 1875-76.	Stock in hand at close of year 1876-77.
Value Rs. 7,530	Value Rs. 28,188.

the increased expenditure on fire conservancy, and an increase of Rs. 2,953 under B. I. 2 and B. II. 2.

The results of the year in this division are, I think, satisfactory.

The outstandings at the close of the year were :—

	Rs.	a.	p.
Due on account of contractors	*Nil.*		
„ „ disbursers	4,552	4	3

The department liabilities amounted to Rs. 3,000.

DETAIL OF OUTSTANDINGS.

Advanced for various works, all recoverable ...	4,552	0	0
Outstandings on account of revenue	100	9	0

LIABILITIES.

Advanced for timber by Hafiz Ahmad Husain, Rs. 3,000.

47. **Jaunsar Division.**—The accounts of this division show—

	Rs. Actuals, 1875-76.	Rs. Actuals, 1876-77.	Percentage of expenditure to receipts, 1875-76.	Percentage of expenditure to receipts, 1876-77.
Receipts	2,22,247	2,03,628	·753	1·064
Expenditure	1,67,516	2,16,670		

DETAILS OF REVENUE.

			Rs.	a.	p.
Head I. 1 (*a.*)	Deodar sleepers ... ... „ karis, &c., ... Rai karis, &c., ... Chir scantlings	...	1,64,717	1	11
„ I. 1 (*b.*)	Firewood and charcoal ...	...	33,575	10	5
„ I. 2 (*a.*)	Timber removed by purchasers	...	253	6	5
„ I. 2 (*b.*)	Firewood and charcoal ...	...	1,327	12	5
„ I. 3.	Confiscated, drift, and waif wood	...	147	8	6
„ II. 1.	Grazing dues and sale of grass	...	1,472	15	6
„ II. 2.	Other minor produce ...	...	392	6	9
„ IV. 1.	Fines and forfeitures ...	...	343	5	9
„ IV. 2.	Refunds to the Department ...	...	1,083	9	0
„ IV. 3.	Other sources	...	314	7	6

A reference to the budget report will show that the results of the year are very close upon what was expected when the regular estimate was calculated.

During 1875-76 there was a large expenditure on works which yielded no return during the year, such as the timber slide, bridge, and roads, &c., for opening out the Deota deodar forest for supplying sleepers; roads in the Konain and Deoban forests for exporting timber and fuel to Chakráta, and extension of the terraces in depôt for stacking fuel; the value of these works, including about 100,000 cubic feet of fuel stacked in the forests not shown as stock, is not less than Rs 35,000.

And in addition to the above, the value of timber on hand at the close of the year is greatly in excess of the value of that in stock at the close of 1875-76.

Stock in hand at close of year 1875-76.	Stock in hand at close of year 1876-77.
Value Rs. 39,298	Value Rs. 81,683.

Under the authority of Government certain articles of forest produce were given either at reduced rates or as a free grant, of which the following is a list :—

	Amount of loss of revenue. Rs.	a.	p.
Timber at reduced rates for building a Roman Catholic chapel at Chakráta	192	5	8
Timber at reduced rates to military officers building houses at Chakráta...	345	14	4
Free grant of stone to the Imperial Military Works Branch for building a bridge over the Jumna ...	8,541	2	10
Total ...	9,079	6	10

Taking everything into consideration, I think the results of the Jaunsár division are quite satisfactory.

The outstandings at the close of the year were—

	Rs.
Due on account of contractors	2,100
„ „ „ of disbursers	25,000
The departmental liabilities amounted to ...	4,456

DETAIL OF OUTSTANDINGS.

Due by Budh Singh on decree obtained, but not yet received	2,100
Permanent advance for works held by Deputy Conservator	25,000

DETAIL OF LIABILITIES.

Due to Messrs. Winton and Braidwood on floating contract	4,456

48. **Bhagirathi Division.**—The accounts of this division show—

	Actuals, 1875-76.	Actuals, 1876-77.	Percentage of expenditure to receipts, 1875-76.	Percentage of expenditure to receipts, 1876-77.
	Rs.	Rs.		
Receipts	1,00,480	87,964	·841	1·628
Expenditure	84,600	1,43,219		

DETAILS OF REVENUE.

		Rs.	a.	p.	Rs.	a.	p.
Head I. 1 (*a*.)	Deodar sleepers 10′×10″×5″,	79,436	0	0			
	„ pieces	3,438	0	0			
	„ sleepers 6′×8″×4″ ...	2,472	0	0			
	Sál pieces	388	1	0			
	Sein „	132	6	0			
	Karis and tors	104	8	0			
	Rejected deodar sleepers ...	87	3	0			
	Tún pieces	41	4	0			
	Kokath „	39	8	0			
	Sisham „	20	2	8			

		Rs. a. p.	Rs. a. p.
	Ballis	15 4 6	
	Baukli pieces	15 0 10	
	Churans	12 12 9	
	Ballas	9 6 0	
	Kokath sleepers	8 12 0	
	Sándan ghats	7 0 0	
	K kat „	5 0 0	
	Chir sleepers	2 8 0	
	Tarans	2 6 5	
	Chír pieces	2 0 0	
	Sándan „	1 8 0	
			86,240 11 0
Head I. 1 (*b.*)	Firewood	...	1,120 0 0
„ I. 2 (*a.*)	Timber removed by purchasers	...	110 8 0
„ I. 2 (*b.*)	Firewood and charcoal ...	...	29 15 9
„ I. 3.	Confiscated, drift, and waif wood	...	51 8 0
„ II. 2.	Other minor produce ...	...	77 8 0
„ IV. 1.	Fines and forfeitures ...	...	4 0 0
„ IV. 2.	Refunds to the department ...	...	330 4 0

The revenue in this division is derived almost entirely from deodar sleepers, and unless a certain amount are supplied, it must be worked at a loss.

The current annual expenditure exclusive of timber operations amounts to Rs. 25,000 as follows :—

Lease of the forests	Rs. 10,000
Expenditure under B. heads	„ 13,000*
Repairs to roads, bridges, and buildings, and sundry incidental charges	„ 2,000

* Deputy Conservator's pay 700 × 12= ...	Rs. 8,400
Deputy Conservator's travelling allowance 150 × 12=	„ 1,800
Total, Rs. ...	10,200

The price allowed by Government for sleepers supplied to State Railways is so low, (Rs. 4 for a 10′ × 10″ × 5″ and Rs. 2 for a 6′ × 8″ × 4″ sleeper delivered at Agra or Delhi), that the profit to the department is only 14 annas on each large and 8 annas on each small sleeper, so that to cover the current annual expenditure, either 28,571 large or 50,000 small sleepers must be supplied.

During last winter I proposed to do away with the Deputy Conservator and a portion of the establishment, and amalgamate the division with the Dehra Dún division, but the Government of India did not sanction my proposal.

The expenditure of the year is increased by an advance of Rs. 50,000 to Mr. Wilson, the contractor for sleepers to be delivered to the Rájputána State Railway in 1876-77.

The outstandings at the close of the year were—

Due on account of contractors Rs. 55,299 as follows :—

Advanced to Mr. Wilson for sleepers for Rájputána State Railway	Rs. 50,00
Advanced to Mr. Wilson for grain	„ 4,79
Advanced to Mr. Wilson for sleepers for Scindia State Railway,	„ 50

The above sums are all recoverable.

49. **Gorakhpur Division.**—The accounts of this division show :—

	Actuals, 1875-76.	Actuals, 1876-77.	Percentage of expenditure to receipts, 1875-76.	Percentage of expenditure to receipts, 1876-7.
	Rs.	Rs.		
Receipts ...	49,378	45,152	·543	·508
Expenditure ...	26,835	22,972		

DETAILS OF REVENUE.

			Rs. a. p.
Head I. 1 (*a.*)	Sál logs	...	9,787 5 4
	„ gúrhas and botas		
	„ ballas		
	„ koros		
	Karma logs ...		
„ I. 1 (*b.*)	Firewood and charcoal ...	...	92 8 6
„ I. 2 (*a.*)	Sál trees	...	21,973 0 11
	Owkat trees ...		
	Mohwa „ ...		
	Other inferior wood ...		
„ I. 2. (*b.*)	Firewood and charcoal ...	...	10,034 4 2
„ I. 3.	Confiscated, drift, and waif wood	...	110 0 0
„ II. 1.	Grazing dues and sale of grass	...	2,462 7 3
„ II. 2.	Other minor produce ...	...	180 5 0
„ IV. 1.	Fines and forfeitures ...	...	57 10 6
„ IV. 2.	Refunds to the department ...	...	114 1 5
„ IV. 3.	Other sources	...	340 2 0

The results of the year are again very satisfactory, and Mr. Grant deserves great praise for the way he has worked up the revenue and decreased the expenditure during the two years (1875-76 and 1876-77) that he has had charge, see below :—

Gorakhpur Division.	1873-74.	1874-75.	1875-76.	1876-77.
	Rs.	Rs.	Rs.	Rs.
Receipts	24,796	39,299	49,378	45,152
Expenditure	26,303	35,425	26,835	22,972
Percentage of expenditure to receipts ...	1·060	·901	·543	·508

	Rs.
The value of timber on hand at the commencement of the year was	15,115
and at the close of the year	11,183

The outstandings at the close of the year were—

Due on account of contractors	1,664
„ „ „ of disbursers	514
The liabilities were	611

and are for an advance received for timber.

The outstandings consist of advances for various works, and are all recoverable.

50. **Rohilkhand Forests.**—The accounts of these forests show—

	Bijnor.		Bareilly.	
	Actuals, 1875-76.	Actuals, 1876-77.	Actuals, 1875-76.	Actuals, 1876-77.
	Rs.	Rs.	Rs.	Rs.
Receipts	16,876	5,946	8,298	8,410
Expenditure	3,274	2,990	4,113	4,318
Percentage of expenditure to receipts ...	·194	·501	·495	·513

In 1875-76 *two* years' payments (Rs. 5,000 per annum) for the lease of the Chándi forest to the Roorkee Workshops were made to Bijnor, and in 1876-77 *none*; this accounts for the great difference in the results of the two years.

DETAILS OF REVENUE.

		Bareilly.			Bijnor.			Total.		
		Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Head I. 1 (*a.*)	Sál ballis ...	0	0	0+	990	12	5=	990	12	5
„ I. 2 (*a.*)	„ karis ...	108	8	0+	0	0	0=	108	8	0
„ I. 2 (*b.*)	Firewood and charcoal	3,468	12	3+	0	0	0=	3,468	12	3
„ I. 3.	Confiscated, drift and waif wood ...	0	0	0+	401	10	0=	401	10	0
„ II. 1.	Grazing dues and sale of grass ...	1,447	9	6+	80	0	0=	1,527	9	6
„ II. 2.	Other minor produce	204	12	6+	4,260	4	0=	4,465	0	6
„ IV. 1.	Fines and forfeitures	0	0	0+	213	2	8=	213	2	8
„ IV. 3.	Other sources ...	3,181	0	0+	0	0	0=	3,181	0	0

The outstandings at the close of the year amounted to Rs. 15 due from contractors in the Bijnor division.

8. **Jhansi Forests.**—The accounts of these forests show :—

	JHÁNSI.		LALITPUR.	
	Actuals, 1875-76.	Actuals, 1876-77.	Actuals, 1875-76.	Actuals, 1876-77.
	Rs.	Rs.	Rs.	Rs.
Receipts	2,727	2,860	3,890	5,249
Expenditure	2,093	2,100	2,278	2,735
Percentage of expenditure to receipts ...	·767	·734	·584	·521

The results of both Jhánsi and Lalitpur are satisfactory. Lalitpur has been improving steadily every year under Major Liston's administration.

DETAILS OF REVENUE.

		Jhánsi.			Lalitpur.			Total.		
		Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Head I. 1 (*a.*)	Ballis	101	11	10+	203	2	2=	304	14	0
	Bamboos	66	12	2+	720	0	3=	786	12	5
	Koryas	0	0	0+	0	2	6=	0	2	6
„ I. 1 (*b.*)	Firewood and charcoal	516	13	8+	0	0	0=	516	13	8
„ I. 2 (*a.*)	Timber removed by purchasers ...	0	0	0+	1,955	6	2=	1,955	6	2
„ I. 2 (*b.*)	Firewood and charcoal	0	0	0+	42	9	0=	42	9	0
„ I. 3.	Confiscated, drift and waif wood ...	0	0	0+	0	1	9=	0	1	9
„ II. 1.	Grazing dues and sale of grass	1,428	5	11+	1,150	10	4=	2,579	0	3
„ II. 2.	Other minor produce ...	736	4	4+	750	10	0=	1,486	14	4
„ IV. 1.	Fines and forfeitures...	0	0	0+	5	4	6=	5	4	6
„ IV. 2.	Refunds to the department	10	4	0+	8	13	0=	19	1	0
„ IV. 3.	Other sources ...	0	0	0+	412	0	0=	412	0	0

The outstandings at the close of the year amounted to Rs. 372, which were due from disbursers in the Lalitpur district.

52. **General Summary.**—The following statement shews the actuals of receipts and expenditure for the last four years, including 1876-77 :—

	Actuals, 1873-74.	Actuals, 1874-75.	Actuals, 1875-76.	Actuals, 1876-77
	Rs.	Rs.	Rs.	Rs.
Receipts	16,29,496	10,85,947	9,69,698	8,15,221
Expenditure	9,64,506	8,55,876	5,37,914	6,54,930
Percentage of expenditure to receipts ...	·59	·78	·55	·80

The advance of Rs. 50,000 for sleepers to be delivered in 1877-78 (mentioned in paragraph 48) has increased the percentage of expenditure to receipts for 1876-77, subtract this amount from the expenditure and the percentage would be ·74.

53. Paragraph 52 shows the figures of the year, but the following summary shows the actual profits :—

Particulars.	Amount in Rs.
Receipts of the Department during 1876-77	8,15,221
Expenditure ditto ditto	6,54,930
Surplus ...	**1,60,291**
Value of timber at commencement of the year	3,77,522
Ditto close ditto	3,72,747
Difference against the year to be deducted	4,775
Balance ...	**1,55,516**
Value of live and dead stock at commencement of the year ...	1,00,757
Ditto close ditto	1,03,768
Balance to be added ...	3,011
Balance ...	**1,58,527**
Deduct—	
Amount of revenue realized on account of previous period ...	19,359
Balance ...	**1,39,168**
Add—	
Out standings of the year minus bad debts	1,27,026
Balance ...	**2,66,194**
Add—	
Amount disbursed on account of previous periods	39,036
Balance ...	**3,05,230**
Deduct—	
Amount due on transactions of the year but not yet paid ...	8,575
Balance showing actual profits of the year ...	**2,96,655**

54. Appendix A. contains the list of houses called for in the Government of India letter which was forwarded to Conservator under cover of your No. 126F., dated 28th May, 1877. It will be observed from the statement that "Ránikhet" is the only house at a head-quarter station; this is a small house situated in the forest nursery, on the outskirts of cantonments, and is used by the sub-divisional officer when he is in Ránikhet, one room being kept available for Mr. Craw whenever he comes to look after the nursery.

Ránikhet being the head-quarters of the sub-division, the forest officer does not draw travelling allowance when he uses this house; no rent has ever been charged, and as the officer spends a good deal of his time in camp, I trust His Honour the Lieutenant-Governor will exempt him from paying rent in future, under the conditions of paragraph 4 of the Government of India letter under notice.

No rent has ever been charged for any of the houses named in Appendix A.

IV.—GENERAL REMARKS.

55. Government of India letter No. 543, dated 11th May, 1877, from Officiating Secretary to the Government of India, Department of Revenue, Agriculture and Commerce, to the Secretary to the Government of the North-Western Provinces, asks for information on various points connected with the North-Western Provinces Annual Forest Report for 1875-76; some of these points will be replied to by letter, the remainder can be conveniently explained here.

First portion of paragraph 3.—It was a mistake to enter the 119 square miles in the Jaunsár division as "unreserved forests," this has been corrected in the 1876-77 statement.

Paragraph 7.—The latter portion of paragraph 21 of this report explains the cause of delay in the demarcation of the Gorakhpur forests.

Para. 8.—The discrepancy of 101 (not 98) square miles in the area of the Lalitpur forests is explained in paragraph 41 of this report; the 101 square miles have ceased to be under charge of the Forest Department, and the Commissioner has been asked why they have not been entered as unreserved forests.

Para. 10.—There appears to have been a number of mistakes in Appendix XVII. of the annual report for 1875-76.

As far as I can make out the following figures represent the (estimated) areas that were actually protected from fire that year:—

					Rs.
Naini Tal Sub-division			...	...	13,760
Ránikhet	ditto	...	...	...	129
Kumaun	Division	...	...	...	32,640
Garhwál	ditto	...	...	...	4,288
Dehra Dún	ditto	...	...	...	6,315
Jaunsár	ditto	...	...	...	...
Gorakhpur	ditto	...	...	...	61,786
Jhánsi	ditto	...	...	...	826
Lalitpur	ditto	...	...	...	1,749
Bijnor	ditto	...	...	...	15,719

I feel rather doubtful about the Bijnor area, as may be noticed from my remarks in paragraph 38.

Every endeavour has been made to prevent mistakes in the figures of form No 47, and it is hoped that the adoption of this new form will shew the results of fire conservancy more clearly than has hitherto been the case.

The mistake which occurred in the figures of the Garhwál division for 1875-76 is explained in paragraph 25.

Para. 11.—The rules for regulating the shooting and fishing of the Gurkhas in the Dehra Dún forests have had very good effect; *one* case has occurred since the rules came into force of a party of eight Gurkhas entering a closed forest to shoot; but on the information of the Deputy Conservator, the officiating commanding officer, Major Battye, sent a party out so promptly that they apprehended the offenders at once, and the commanding officer, besides punishing them, explained to them how their conduct endangered a much valued regimental privilege. The Deputy Conservator

writes :—" Since the men of this corps have been made to understand that their privilege was in jeopardy, not a single fire has taken place, and Government will act wisely in causing the knowledge to be kept before them that the "pass" system is merely a tentative one, permitted in the hope that it may prove sufficient, but that should it be found inadequate, their shooting and fishing can be limited to certain bounds, or even stopped altogether."

Latter portion of paragraph 13.—The discrepancy was caused by the greater portion of the expenditure under A. IV. 1 (*d*) being included in the amount entered in appendix XVI.

Para. 14.—The latter portion of paragraph 28 of this report explains the measures that have been taken towards keeping the Bhágirathi road in proper repair.

Paras. 22 and 23 have been attended to.

Para. 24.—In the Kumaun depôt there is no *old stock* worth mentioning, it is always disposed of at the annual auctions. In the Garhwál division there are 15 old sal logs and 3,868 old kokath karis. Mr. Colvin was requested to dispose of these last winter, but apparently he forgot to, they will all be sold next winter.

Para. 25.—Of the cash balances in hand in the Garhwál division, Rs. 22,324 at the commencement and Rs. 26,703 at the close of the year 1875-76, the Garhwál cash accounts show that the balances for *unremitted revenue* were, in March 1875, Rs. 20,575-1-3, and in March, 1876, Rs. 22,574-12-8, which reduces the ordinary balances to very small sums. Revenue comes in all of a lump in the closing month of the year, and chiefly at the very end of the month, and so there is a difficulty in remitting it to the treasury in time to be credited in the March accounts.

56. It is hoped that before the writing of another annual report the whole of the forests of the North-Western Provinces will have been demarcated and gazetted, and that the report for 1877-78 will show considerable advance in the preparation of the register of reserves and in the formation of working plans.

The Naini Tal forests are to be surveyed by the Forest Survey Department during the ensuing autumn, and we hope to get the village lands demarcated before the survey commences. The register of reserves might be commenced here at once, but the working plan should wait until the new map is obtained.

Ranikhet forests.—Here the register reserves and working plan for the closed reserve will be commenced at once, for there is a large scale map of almost the whole of it; but as the forests are to be surveyed by the Forest Survey Department during next spring, it will be best to await the publication of the new map before commencing the working plan for the remainder of the reserves.

Kumaun Bhabar Forests.—The working plans and register can be commenced as soon as the forests are gazetted, and now that the boundaries have been agreed to by the Commissioner, there should not be any further delay.

Garhwal Bhabar Forests.—Now that the forests have been gazetted, the register of reserves can be commenced, and Mr. Dansey (trained Assistant), who will be employed as an Assistant in the division next working season, will employ all his spare time in making working plans of the different forests.

Dehra Dun Forests.—These forests have been gazetted. The Deputy Conservator is now at work preparing the register, and before the close of the year he hopes to have working plans framed for some of his forests.

Jaunsar Forests.—The Deputy Conservator is hard at work preparing both register and working plans.

Bhagirathi Forests.—I hope to visit these forests next autumn, and will submit a report with reference to paras. 4 and 5 of the Government of India letter No. 543 above mentioned.

Gorakhpur Forests.—These and the Bareilly forests have been handed over to the Conservator of Oudh. Great advance has been made during the past year in the demarcation and gazetting of forests in the North-Western Provinces, and now will follow the register of reserves and working plans which, in my opinion, could not have been satisfactorily commenced before. I understand what the Government of India wishes done with the forests leased from the Tehri Rájá, and will attend to the matter at the earliest opportunity. The area protected from fire has been greatly increased, and the forests are showing unmistakeable signs of improvement; the conservancy and working of the forests are improving annually; plantation work is so fairly well understood now that failures are of rare occurrence; forest officers work smoothly with the district officers, and, as far as it is possible to judge, the department is working smoothly and well, and making steady advances every year.

57. Very great credit is due to Mr. Braidwood for his excellent management of the Naini Tal forests in addition to his heavy in-door work connected with the charge of Conservator's office. Mr. Braidwood is the hardest worked forest officer in these provinces.

Mr. Pengelly's transfer was most unfortunate; he was thoroughly acquainted both with the forest and the district officers, and his local and professional knowledge would have been very valuable at Ránikhet during the next three or four years for systematizing the supply of wood to villagers and to the cantonment, for demarcating the remainder of the closed reserves we hope to get, and for generally bringing this important sub-division into proper working order.

Kumaun was admirably worked by Captain Campbell as usual; he got some assistance from Mr. Brereton during December and January, but that officer got very ill in February, and has now been placed in charge of Ránikhet.

Garhwal Division.—Owing to Mr. Colvin's poor health the revenue was *at least* Rs. 30,000 less than it should have been. Mr. Dansey had charge of the fire conservancy, which was a success this year, although it failed signally the two previous years.

Mr. O'Callaghan managed the Dehra Dún division very well, he also officiated as Conservator during my six months' furlough, and carried on the duties very satisfactorily; of his assistant Mr. O. Greig, Mr. O'Callaghan writes as follows:—"It would "be difficult for me to overrate the advantages of complete harmony between this de-"partment and the civil authorities in working such a section of our forests as the "sub-Sewalik sub-division. By his personal intercourse with Mr. Jenkinson (the "Collector of Saháranpur) Mr. O. Greig obtained as much valuable assistance from "that influential officer as if he himself had been a zealous forest officer, and I have "every reason to think that the Assistant Conservator is working in the very same "spirit with the present Collector; until this intercourse was established, the sub-"division can hardly be said to have had fair play."

Jaunsar Division.—Mr. Bagshawe is an excellent forest officer, and Jaunsár could not get on without him. Of his assistant, Mr. Rind, he writes as follows:—"During "April 1876 he had charge of Deota range, and worked might and main to get the "slide, &c., advanced. From May to November he had charge of the Jaunsár division. "During a very hard working season he did the work as few others could have done "it, and has, I think, proved himself worthy of any charge that you may have to give "him." Mr. Rind is a most promising forest officer and fully deserves all the praise Mr. Bagshawe has given him.

Mr. Down was also an assistant in Jaunsár during the summer and rains; his good services there were brought to your notice in this office No. 211, dated 22nd December, 1876, and I was glad to see that he had been promoted.

Bhagirathi Division.—No fault was found with Mr. Amery during the portion of 1876-77 that he held charge.

Mr. Grant did very good service in the Gorakhpur division during the time hef held charge of it, as may be observed by a perusal of para. 49 of this report. He is now in charge of the Garhwál division and has again a good opportunity of distinguishing himself.

Lalitpur Forests.—I am very sorry that Major Liston has left this district, and trust that he may return to it when he has recovered his health. He has held charge of the forests since 1873, and has made vast improvements in conservancy besides increasing the revenue about 100%. Major Liston deserves the thanks of Government for the great interest he has taken in the welfare of the forests.

In conclusion I would add a few words of praise to my office establishment.

Mr. Braidwood has been mentioned in other parts of the report, it would be difficult to find a better or harder-working officer.

Mr. Jeffreys, the head-clerk, took a year's furlough from the 1st May last, and Mr. Sheils, the 2nd clerk, officiates for him.

Since the commencement of the official year the work in my office has been excessively heavy owing to the introduction of the Forest Department Code with its numerous forms, and the alteration in the system of auditing accounts, but Mr. Sheils has proved himself thoroughly fit for the post, and has been of great assistance both to Mr. Braidwood and to me.

The remainder of the clerks have also behaved very well during these very trying three months, they have always been most willing to work for a few hours over time, when there was more work than could be got through during regular office hours.

G. GREIG,

Conservator of Forests, N.-W. P.

OFFICE OF CONSERVATOR OF FORESTS, N.-W. P.:
Naini Tal, the 30th July, 1877.

APPENDICES

The Appendices consist of all the returns prescribed in para. 190 of the Code.

I.—	Form	No.	45.	Area of reserved forests.
II.—	,,	,,	,,	,, ,, unreserved ,,
III.—	,,	,,	46.	,, ,, plantations.
IV.—	,,	,,	47.	,, ,, forest tracts protected from fire.
V.—	,,	,,	48.	Prosecutions for breaches of forest rules.
VI.—	,,	,,	49.	Annuary summary of revenue and expenditure.
VII.—	,,	,,	50.	Annual account current.
VIII.—	,,	,,	51.	Annual statement of outstandings and liabilities on account of contractors.
IX.—	,,	,,	,,	,, ,, ,, on account of disbursers.
X.—	,,	,,	52.	,, ,, ,, on account of revenue.
XI.—	,,	,,	53.	,, ,, ,, trees felled.
XII.—	,,	,,	54.	,, ,, ,, of logs, sleepers, &c., cut and exported.
XIII.—	,,	,,	55.	,, ,, ,, timber and other produce brought to depôt.
XIV.—	,,	,,	56.	,, ,, ,, timber and other produce.
XV.—	,,	,,	57.	,, ,, ,, showing the amount realized on account of different classes of timber and other produce sold from depôt.
XVI.—	,,	,,	58.	,, ,, ,, showing the amount expended on account of timber and other produce brought to depôt.
XVII.—	,,	,,	59.	,, ,, ,, showing the revenue derived from, and expenditure on timber and other produce, sold to public departments.
XVIII.—	,,	,,	60	,, Abstract showing the value of timber and of live and dead stock.

XIX.—List of rest houses in forest plantations and at depôts, which have cost above Rs. 200 each.

APPENDIX I.

FORM No. 45.

Forest Department, North-Western Provinces.

Area of Reserved Forests, 1876-77.

Division or Range.	Name of Forest.	*Area on 1st April*, 1876.		*Added during the year.*		*Excluded or transferred to other heads.*		*Total on 31st March*, 1877.		No. and date of Notification of additions and transfers, &c.	Remarks.
		Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.		
Kumaun Division ...	Block No. 1 ...	128	320	...	...	...	...	128	320	...	The blocks have not been finally approved or gazetted. The areas, which have been given by the Superintendent of Forest Surveys, are computed by measurements of the Great Trigonometrical Survey. Topographical Maps, Scale 1"=1 mile.
	" No. 2 ...	37	...	...	...	...	...	37	...	...	
	" No. 3 ...	56	...	...	...	...	...	56	...	...	
	" No. 4 ...	8	320	...	...	...	...	8	320	...	
	" No. 5 ...	103	320	...	...	...	...	103	320	...	
	" No. 6 ...	6	...	...	...	...	...	6	...	...	
	" No. 7 ...	14	...	...	...	...	...	14	...	...	
	" No. 8 ...	230	320	...	...	...	...	230	320	...	
	" No. 9 ...	68	...	...	...	...	...	68	...	...	
	" No. 10 ...	6	480	...	...	...	...	6	480	...	
	" No. 11 ...	7	160	...	...	...	...	7	160	...	
	" No. 12 ...	8	320	...	...	...	...	8	320	...	
		674	320	...	...	...	...	674	320	...	
Naini Tal Sub-division,	...	38	...	...	...	...	...	*38	...	...	* Computed by the Forest Survey Department, but this includes about 8 square miles of village lands.
Ránikhet Sub-division,	Block No. 1 Machor ...	...	211	...	...	...	...	...	211	...	Computed by the Forest Survey Department by measurements from the Great Trigonometrical Survey, Topographical
	" No. 2 Bhatrong ...	9	208	...	...	...	...	9	208	...	
	" No. 3 Tetalikhet ...	6	409	...	...	...	...	6	409	...	
	" No. 4 Siun ...	1	8	...	...	...	...	1	8	...	
	" No. 5 Kathalekh,	3	67	...	...	...	...	3	67	...	
	" No. 6 Bellekh ...	1	139	...	...	...	...	1	139	...	
	" No. 7 Gaunyadeoli,	1	326	...	...	...	...	1	326	...	
	" No. 8 Karchuli ...	...	203	...	...	...	...	...	203	...	
	" No. 9 Chilianao ...	1	24	...	...	...	...	1	24	...	
	" No. 10 Choubuttia	2	261	...	...	...	...	2	261	...	

	„ No. 11 Ránikhet ...	6	536	...	...	...	...	6	536	...	maps, Scale 1″=1 mile.
	„ No. 12 Padolí ...	1	153	...	...	...	...	1	153	...	
	„ No. 13 Duwarsouni,	2	544	...	...	...	...	2	544	...	
	„ No. 14 Aradeo ...	26	142	...	...	...	...	26	142	...	
	„ No. 15 Siahi Devi,	2	613	...	...	...	...	2	613	...	
		67	12	...	...	...	...	67	12	...	
Garhwál Division ...	Block No. 1 ...	237	320	...	...	...	...	237	320	...	Computed by the Forest Survey Department from the Great Trigonometrical Survey Topographical maps.
	„ No. 2 ...	180	320	...	...	...	...	180	320	...	
	„ No. 3 ...	17	...	...	...	...	...	17	...	...	
	„ No. 4 ...	36	320	...	...	...	...	36	320	...	
	„ No. 5 ...	88	..	...	...	...	...	88	...	...	
		559	320	...	...	...	...	559	320	...	
	Sewalik Range.										
Dehra Dún Division ...	Western Sewaliks ...	77	173	...	...	...	...	77	173	...	
	Eastern ditto ...	104	371	...	...	...	...	104	371	...	
	Sewaliks & Sub-Sewaliks,	267	173	...	...	...	...	267	173	...	
		449	77	...	...	...	...	449	77	...	
	Majhera	6	473½	...	...	...	...	6	473½	...	With the exception of the Patri Forest, the area of which was given by the Collector of Sahárnpur, all these areas have been computed by the Forest Survey Department from the recent Survey.
	Rampur Mandi ...	1	345½	...	...	...	...	1	345½	...	
	Ambari	6	256	...	...	...	...	6	256	...	
	Chandpur	3	243⅓	...	...	...	...	3	243⅓	...	
	Dholkot	7	601½	...	...	...	...	7	601½	...	
	Thano	9	614	...	...	...	...	9	614	...	
	Nagsidh	25	243⅓	...	...	...	...	25	243⅓	...	
	Tirsal ... { Tirsal ..	14	89⅔	...	...	...	...	14	141	...	
	Tirsal ... { Sainkote ...	14	59⅓	...	...	...	...	14	...	...	
	Saora Saroli { Kachar ...	...	237	...	...	...	...	...	237	...	
	Saora Saroli { Saora Saroli	1	326	...	...	...	...	1	326	...	
	Song	1	256	...	...	...	...	1	256	...	
	Patri	21	493	...	...	...	...	21	493	...	
		114	398	...	...	...	...	114	390	...	
		449	77	...	...	...	...	449	77	...	
	Total, Dehra Dún ...	563	475	...	...	...	...	563	467	...	

APPENDIX I.

FORM No. 45.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Area of Reserved Forests, 1876-77—(continued).

Division or Range.	Name of Forest.	*Area on 31st April*, 1876.		*Added during the year.*		*Excluded or transferred to other heads.*		*Total on 1st March*, 1877.		No. and date of Notification of additions and transfers, &c.	REMARKS.
		Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.		
	Kálsi Range.										
	Ganjgawn	3	267	...	...	...	...	3	267	...	Roughly measured from existing maps.
	Harripur Bias ...	2	220	...	...	...	...	2	220	...	
	Bana	3	280	...	...	...	...	3	280	...	
	Bissahil	3	620	...	...	...	...	3	620	...	And 50 miles of river.
	Silgawn	...	258	...	...	...	...	...	258	...	
		13	365	...	...	...	...	13	365	...	
	Deoban.										
	Danan (part of) Missan (part of)	3	314	...	...	...	...	3	314	...	
	Mohna	2	345	...	...	...	...	2	345	...	
	Duar	3	7	...	...	...	...	3	7	...	
	Bislar	8	230	...	...	...	...	8	230	...	
	Uperli Atgawn ...	2	227	...	...	...	...	2	227	...	
	Thaplar	...	62	...	...	...	...	...	62	...	
	Bamptar (part of) ...	...	30	...	...	...	...	...	30	...	
	Dissan (part of) ...	...	40	...	...	...	...	...	40	...	
	Bondar	22	198	...	...	...	..	22	198	...	
		42	173	..	...	...	...	42	173	...	

Jaunsár Division ...	*Bodyar.*										
	Bamptar (part of) ...	...	300	...	...	...	...	...	300	...	Roughly measured from existing maps.
	Koru	...	84	...	...	...	...	...	84	...	
	Seli	...	301	...	...	...	...	...	301	...	
	Bangawn	...	7	...	...	...	...	...	7	...	
	Danan (part of) ...	1	570	...	...	...	...	1	570	...	
	Bharam	4	202	...	...	...	...	4	202	...	
	Missan (part of) ...	5	433	...	...	...	...	5	433	...	
	Dissan (part of) ...	...	48	...	...	...	...	...	48	...	
		13	25	...	...	...	...	13	25	...	
	Banalgad.										
	Kailo	11	393	...	...	...	...	11	393	...	
	Bawar.										
	Bawar	37	290	...	...	...	...	37	290	...	
	Lakan	11	170	...	...	...	...	11	170	...	
		48	460	...	...	...	...	48	460	...	
	Deogar.										
	Deogar	14	420	...	...	...	...	14	420	...	
	Jaunsár.										
	Atgawn Chando ...	...	44	...	...	...	...	...	44	...	
	Maletha	...	3	...	...	...	...	...	3	...	
	Phirtar	...	38	...	...	...	...	...	38	...	
	Lakwar	...	73	...	...	...	...	...	73	...	
	Bailar	...	43	...	...	...	...	...	43	...	
		...	201	...	...	...	...	...	201	...	
	Total area of Jaunsar Division	144	117	...	...	...	...	144	117	...	

APPENDIX I.

FORM No. 45.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Area of Reserved Forests, 1876-77—(concluded.)

Division or Range.	Name of Forest.	*Area on 1st April*, 1876.		*Added during the year.*		*Excluded or transferred to other heads.*		*Total on 31st March*, 1877.		No. and date of Notification of additions and transfers, &c.	REMARKS.
		Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.		
Bhagirathi Division ...	...	...	...	...	...	...	...	...	...	...	
Gorakhpur Division,	Ramgarh and Tilkonia ...	10	354	...	...	...	...	10	354	...	
	Nagwa	9	240	...	...	...	...	9	240	...	* Omitted by oversight from last year's statement.
	Sonari and Jagpur ...	34	240	...	132*	...	...	34	372	...	
	Dudhai	13	280	...	...	...	...	13	280	...	
	Bhillampur and Banki ...	6	314	...	...	...	...	6	314	...	
	East Lehra ...	11	560	...		...	...	11	560	...	Roughly measured from existing maps.
	West Lehra ...	19	140	...	...	...	...	19	140	...	
	Bhari Baisi and Bhari Baban	9	240	...	...	...	...	9	240	...	
		114	448	...	...	...	...	114	580	...	
Bareilly	Pilibhit	44	200	...	...	...	...	44	200	...	
	Puranpur	93	...	...	...	...	...	93	...	...	
		137	200	...	...	...	...	137	200	...	
Bijnor	Chandi	61	339	...	...	...	...	61	339	...	
	Rehar	24	352	...	...	...	...	24	352	...	
		86	51	...	...	...	...	86	51	...	

Jhánsi	Jhánsi	33	220	3	*348	...	...	36	568	...	*72 patches of babúl added during the year.
Lalitpur	Lalitpur	145	344	...	...	...	...	145	344	...	
	TOTAL ...	2,563	587	3	480	...	...	2,567	419	...	

APPENDIX II.

Area of Unreserved Forests, 1876-77.

Kumaun Forest Division,	...	...	...	...	...	...	...	...	...	...	
Naini Tal sub-division ...	...	...	...	...	...	...	...	...	...	...	
Ránikhet ditto ...	...	...	...	...	...	...	...	...	...	...	
Garhwál Division ...	...	...	...	...	...	...	...	...	...	...	
Dehra Dún do. ...	...	...	...	...	...	...	...	...	...	...	
Jaunsár do. ...	...	...	...	...	...	...	...	...	...	...	
Bhagirathi do. ...	...	...	...	...	...	...	...	...	...	...	
Gorakhpur do. ...	...	...	...	...	...	...	...	...	...	...	
Jhánsi do. ...	Jhánsi Forests ...	...	...	...	...	...	...	...	...	...	
	Lalitpur do. ...	...	...	...	...	...	...	...	...	...	
Rohikhand do. ...	Bareilly do. ...	...	...	...	...	...	...	...	...	...	
	Bijnor do. ...	9	51	...	...	...	...	9	51	...	
		9	51	..	...	...	...	9	51	..	

NAINI TAL,
The 30th July, 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPENDIX III

FORM No. 46.

Forest Department, North-Western Provinces.

Area of Plantations, 1876-77.

Division.	Name of Plantation.	On 1st April, 1876.		During 1876.		On 31st March, 1877.		Remarks.
		Area.	Total Cost.	Area added.	Cost.	Total Area.	Total Cost.	
		A. r. p.	Rs. a. p.	A. r. p.	Rs. a. p.	A. r. p.	Rs. a. p.	
Kumaun Division,	...	½ 0 0	...	*Nil.*	...	½ 0 0	...	The plantation shewn last year belonged to Ránikhet, what was then a Sub-division of Kumaun Division.
Ránikhet Sub-division.	Jakdeo (upper) ... ... Jakdeo (lower) ... ... Garkhet ... ... Jamoli ... ... Darimkhet ... ... Ghinjarúkál	367 0 0	8,751 6 9	*Nil.*	1,392 3 6*	367 0 0	10,143 10 3	*Expenditure under A.IV.2.
Naini Tal Sub-division.	China Pahár ... ... Deopathar } Oaks ... Ayarpatha } Oaks ... Jokiya } Oaks ... Laria Kanta	35 0 0	62 12 3	*Nil.*	...	13 0 0	62 12 3	Seed was dibbled in over about 35 acres in 1875-76, it is estimated that 22 acres were in failure.
	Jabar { Nursery ... Jabar { Deodar ...	1/10 0 0 ...	2 10 0 ...	... 30 0 0	11 4 3 596 4 9†	1/10 0 0 30 0 0	13 14 3 596 4 9	†Expenditure under A.IV. 1 (c.)
Garhwál Division,	Boxar	47 0 0	401 3 0	*Nil.*	95 10 0‡	47 0 0	496 13 0	‡Expenditure under A.IV. 1 (a.)

Dehra Dún Division.	Dehra Dún ...	...	1 Acre.	90 11 1	...	5 13 4*	1 acre.	96 8 5
	Landaur ...	...	Unknown.	504 12 6	...	...	Unknown.	504 12 6
	Saháranpur ...	...	16 Acres.	40 10 3	...	...	16 acres.	40 10 3
	Total	...	...	636 1 10	...	5 13 4	...	641 15 2
Jaunsár Division.	Mandhol Deodar...	...	11 0 0	393 9 5	...	...	11 0 0	393 9 5
	Koti ditto ...	...	29 1 0	716 8 6	...	...	29 1 0	716 8 6
	Katíyan ditto ...	...	225 1 0	2,347 15 10	3 3 10	57 15 0	229 0 10	2,405 14 10
	Konain ditto ...	...	86 0 30	1,726 2 5	1 2 26	31 12 6	87 3 16	1,757 14 11
	Kanaseer miscellaneous	...	139 0 14	1,363 15 3	...	0 9 0	139 0 14	1,364 8 3
	Badyar Deodar ...	...	325 2 15	1,914 12 3	25 0 16	208 4 5	350 2 31	2,123 0 8
	Paniawa Fuel ...	...	0 3 0	116 10 0	...	...	0 3 0	116 10 0
	Deothal ditto ...	...	127 0 0	914 12 1	16 0 0	328 3 11	143 0 0	1,243 0 0
	Matkangra ditto...	...	36 1 0	279 13 3	14 3 16	296 13 7	51 0 16	576 10 10
	Koruwa ditto ...	...	15 1 10	132 3 0	...	...	15 1 10	132 3 0
	Thona ditto ...	...	4 0 0	684 0 7	...	21 6 0	4 0 0	705 6 7
	Miscellaneous charges	...	...	1,026 0 3	...	5 13 6	...	1,031 13 9
	Total	...	999 2 29	11,616 6 10	61 1 28	950 13 11§	1,061 0 17	12,567 4 9
Bhagirathi Divn., Gorakhpur Division.	...		...	...	...	...	...	...
	Ramgarh ...	...	125 0 0	3,603 10 7	100 0 0	607 0 8*	225 0 0	4,210 11 3
	Sonari ...	...	...	...	20 0 0	100 0 0†	20 0 0	100 0 0
	Total	...	125 0 0	3,603 10 7	120 0 0	707 0 8	245 0 0	4,310 11 3
Jhánsi Division.	Jhánsi ..	...	181 0 0	50 0 0	...	...	181 0 0	50 0 0
	Lalitpur ...	...	...	...	...	...	...	...
	Total	...	181 0 0	50 0 0	...	...	181 0 0	50 0 0
Rohilkhand Division.	Bareilly ...	...	...	...	...	...	...	...
	Bijnor ...	...	...	...	...	...	...	...
	Total	...	1,772 0 32	25,124 3 3	211 1 28	3,759 2 5	1,983 2 20	28,883 5 8

* Expenditure under A.IV. 2 (*a.*)

§Expenditure under A.IV. 1 (*d.*)

* Includes all expenditure under A.IV. 1 (*d*), †and A.IV.2.

NAINI TAL
The 30th July 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPENDIX IV.

FORM No. 47.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Area of Forest tracts protected from fire during the dry season of 1877.

KUMAUN DIVISION.

Division.	Forest tracts.	Up to 15th June, 1876.		During dry Season of 1877.				Total cost up to 30th June, 1877.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
		Acres.	Rs. a. p.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
Kumaun, Western ...	Mohan forest ...	32,640	5,899 14 8	45,440	202	45,238	1,000 0 0	6,899 14 8	1873-74	
	Kotah ...	...	...	21,760	765¾	20,994¼	200 0 0	200 0 0	1876-77	
	Garibolchand ...	...	...	7,330½	10½	7,320	1,100 0 0	1,100 0 0	1876-77	
Kumaun, Eastern ...	Horái ...	...	...	2,732½	2,438¾	293¾	2,000 0 0	2,000 0 0	1876-77	
	Sadlimat ...	...	...	8,320	6,866	1,454			1876-77	
	Total ...	32,640	5,899 14 8	85,583	10,283	75,300	4,300 0 0	10,199 14 8		
					Charged in previous years ...			5,899 14 8		
					„ „ 1876-77 ...			4,300 0 0		
					„ „ 1877-78 ...			..		
					Total, Rs. ...			10,199 14 8		

NAINI TAL SUB-DIVISION.

Naini Tal sub-division.	Naini Tal sub-division.	13,760	441 15 0	19,200	...	19,200	222 6 6	664 5 6	1876	The burning of lines commenced in February, 1876.
					Charged in previous years ...			214 0 0		
					„ „ 1876-77 ...			227 15 0		
					„ „ 1877-78 ...			222 6 6		
					Total, Rs. ...			664 5 6		

RANIKHET SUB-DIVISION.

Ránikhet sub-division,	Ránikhet closed reserve.	129¼	10 12 0	4,800	...	4,800	429 3 9	439 15 9	1874
					Charged in previous years		...	...	
					" " 1876-77		...	369 2 3	
					" " 1877-78		...	70 13 6	
					Total, Rs.		...	439 15 9	

GARHWAL DIVISION.

Garhwál Division ...	Dhíkala ... (Pátli Dún) ...	4,288	5,236 13 11	12,800	...	12,800	1,097 5 5	6,334 3 4	1873-74
	Shisham kháta, (Pátli Dún) ...	...	...	1,920	145	1,775			1876-77
	Pápidándá ...	...	35 0 0	500	...	500	231 6 5	266 6 5	1875-76
	Total ...	4,288	5,271 13 11	15,220	145	15,075	1,328 11 10	6,600 9 9	
					Charged in previous years		...	5,271 13 11	
					" " 1876-77		...	917 15 10	
					" " 1877-78		...	410 12 0	
					Total, Rs.		...	6,600 9 9	

APPENDIX IV.

FORM No. 47.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Area of Forest tracts protected from fire during the dry season of 1877—(continued.)

DEHRA DUN DIVISION.

Division.	Forest tracts.	Up to 30th June, 1876.		During dry Season of 1877.				Total cost up to 30th June, 1877.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
		Acres.	Rs. a. p.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
Dehra Dún Division,	Búláwála ...	6,315	3,717 4 10	7,680	...	7,680	999 9 3	4,716 14 1	1872	
	Tháno ...	...	...	6,029	...	6,029	303 13 6	303 13 6	1877	Ten acres of grass land were burnt, but are not entered as failures.
	Dhaulkhand ...	...	...	3,309	...	3,309	84 3 3	84 3 3	1877	
	Total ...	6,315	3,717 4 10	17,018	...	17,018	1,387 10 0	5,104 14 10		

Charged in previous years ...	3,588 15 1
" " 1876-77 ...	1,268 12 6
" " 1877-78 ...	247 3 3
Total, Rs. ...	5,104 14 10

JAUNSÁR DIVISION.

Jaunsár Division ...	1st class forest...	15,478	902 3 4	15,478	...	15,478	406 3 9	1,308 7 1	1870.	Owing to the absence of any map except the old one on a scale of 4 miles to the inch, no attempt has been made to divide the total area into the areas protected in each range; any such division of areas made on this map would have been inaccurate, it was, therefore, thought better to postpone the preparation of a more detailed return until accuracy could be secured.
	2nd do do ...	43,278		43,278	20	43,258				
	Total ...	58,756	902 3 4	58,756	20	58,736	406 3 9	1,308 7 1		

Charged in previous years ...	357 5 4	
" " 1876-77 ...	544 14 0	
" " 1877-78 ...	406 3 9	
Total, Rs. ...	1,308 7 1	

BHAGIRATHI DIVISION.

Bhágirathi Division...	...	This is the 1st year in which this statement has been submitted for the Bhágirathi Division.	...	20,000	33	19,967	...	...	Not reported by the Bhágirathi officer.	No allotment was ever made specially for protection from fire, but the forests have been protected by the sanctioned forest establishment.

Charged in previous years ...	...	
" " 1876-77 ...	...	
" " 1877-78 ...	...	
Total ...	...	

APPENDIX IV.

FORM No. 47.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Area of Forest tracts protected from fire during the dry season of 1877—(continued.)

GORAKHPUR DIVISION.

Division.	Forest tracts.	Up to 15th June, 1876.		During dry Season of 1877.				Total cost up to 30th June, 1877.	Year when protection commenced.	Remarks
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
		Acres.	Rs. a. p.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
Gorakhpur Division,	Rámgarh and Tilkonia,	61,786	245 5 9	6,754	...	6,754	573 0 11	818 6 8	June, 1875.	
	Nagwa ...			6,000	...	6,000				
	Sonári and Jagpur ...			22,132	...	22,132				
	Dúdhai ...			8,600	...	8,600				
	Bhillampur and Banki,			4,154	...	4,154				
	East Lehra ...			7,600	...	7,600				
	West Lehra ...			12,300	...	12,300				
	Bhari Baisi and Bhari Baban.			6,000	600	5,400				
	Total	61,786	245 5 9	73,540	600	72,940	573 0 11	818 6 8		
						Charged in previous years ...		245 5 9		
						" " 1876-77 ...		573 0 11		
						" " 1877-78 ...		...		
						Total Rs. ...		818 6 8		

JHANSI DIVISION.

Division.	Forest tracts.	Up to 30th June, 1876.		During dry Season of 1877.				Total cost up to 30th June, 1877.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
		Acres.	Rs a p.	Acres.	Acres.	Acres.	Rs. a p.	Rs. a. p.		
Jhánsi Division. Jhánsi forests, ..	Dákwán ...	826	205 0 0	726	...	726	130 0 0	335 0 0	1874-75	
	Súkwán ...	...	...	100	...	100	20 0 0	20 0 0	1876-77	
	Total ...	826	205 0 0	826	...	826	150 0 0	355 0 0		
Lalitpur do ...	Deogarh and Garauli...	1,749	124 0 0	1,749	...	1,749	100 0 0	224 0 0	1875-76	
								579 0 0		
							Charged in previous years ...	80 0 0		
							" " 1875-76 ...	249 0 0		
							" " 1876-77 ...	250 0 0		
							Total, Rs. ...	579 0 0		

ROHILKHAND DIVISION.

Division.	Forest tracts.	Up to 15th June, 1876.		During dry Season of 1877.				Total cost up to 30th June, 1877.	Year when protection commenced.	Remarks
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
		Acres.	Rs. a. p.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
Rohilkhand Divn. Bareilly forest,	...	...	...	...	...	...	...	...	...	* No expenditure has been incurred in fire conservancy, in making fire tracks, or putting on watchers, &c., see Conservator's No. 98, dated 26th July, 1877, to Government.
* Bijnor do.	Rehar forest ...	15,719	...	15,719	...	15,719	...	...	1874	
							Charged in previous years ...	...		
							" " 1876-77 ...	...		
							" " 1877-78 ...	...		
							Total ...	...		

APPENDIX IV.

FORM No. 47.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Area of Forest tracts protected from fire during the dry season of 1877—(concluded.)

SUMMARY.

Divisions.	Forest tracts.	Up to 30th June, 1876.		During dry Season of 1877.				Total cost up to 30th June, 1877.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost	Area attempted to be protected.	Failures.	Actually protected.	Amount expended.			
		Acres.	Rs. a. p.	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
Kumaun Division ...	See statements for each division.	32,640	5,899 14 8	85,583	10,283	75,300	4,300 0 0	10,199 14 8	See statements for each division.	See statements for each division.
Naini Tal Sub-division		13,760	441 15 0	19,200	...	19,200	222 6 6	664 5 6		
Ránikhet ditto		129¼	10 12 0	4,800	...	4,800	429 3 9	439 15 9		
Garhwál Division ...		4,288	5,271 13 11	15,220	145	15,075	1,328 11 10	6,600 9 9		
Dehra Dún ditto ...		6,315	3,717 4 10	17,018	...	17,018	1,387 10 0	5,104 14 10		
Jaunsár ditto ...		58,756	902 3 4	58,756	20	58,736	406 3 9	1,308 7 1		
Bhágirathi ditto ...		...	...	20,000	33	19,967	...	...		
Gorakhpur ditto ...		61,786	245 5 9	73,540	600	72,940	573 0 11	818 6 8		
Jhánsi ditto ...		826	205 0 0	826	...	826	150 0 0	355 0 0		
Lalitpur ditto ...		1,749	124 0 0	1,749	...	1,749	100 0 0	224 0 0		
Bareilly ditto ...		...	...	...	...	...	...	...		
Bijnor ditto ...		15,719	...	15,719	...	15,719	...	...		
	Total ...	195,968	16,818 5 6	3,12,411	11,081	3,01,330	8,897 4 9	25,715 10 3		

Charged in previous years	...	16,451 4 9
" " 1876-77	...	8,313 2 3
" " 1877-78	...	951 3 3
Total, Rs.	...	25,715 10 3

OFFICE OF CONSERVATOR OF FORESTS, N.-W. P.:
Dated Naini Tal, the 9th August, 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPENDIX V.

FORM No. 48.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Prosecutions for breaches of Forest Rules, 1876-77.

Forest Division and Civil District.	Injury to forests by fire.		Unauthorized felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		TOTAL.				REMARKS.
									Prosecutions.		Convictions.		
	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1. Kumaun Division ... ... / Kumaun District	...	...	188	399	...	...	...	...	188	399	143	304	
2. Ránikhet Sub-division ... / Kumaun District	...	...	...	...	...	...	...	...	...	...	...	...	
3. Naini Tal Sub-division ... / Kumaun District	...	...	...	...	...	...	...	...	1	1	1	1	Decree given on 17th April, 1877.
4. Garhwál Division ... ... / Kumaun District	1	1	29	56	...	...	32	35	62	92	46	57	
5 Dehra Dún Division ... / Meerut District	...	...	15	27	...	...	...	...	15	27	14	25	
6. Jaunsár Division ... ... / Meerut District	3	4	28	38	28	162	16	19	75	223	68	214	
7. Bhagirathi Division ... ... / Native Garhwál	...	...	7	21	...	...	...	...	7	21	7	19	
8. Gorakhpur Division ... ... / Gorakhpur District	1	2	2	2	1	1	3	7	7	12	7	12	
9. Bareilly .. .. / Rohilkhand District ...	...	...	...	..	...	...	...	...	...	...	...	..	
10. Bijnor ... ... / Rohilkhand District	...	...	1	18	1	30	...	...	2	48	2	48	
11. Jhánsi ... ... / Jhánsi District	...	..	6	12	...	...	...	...	6	12	5	8	
12. Lalitpur ... ... / Lalitpur District	Deputy Commissioner has not classified the offences.								30	31	29	30	
Total ...	5	7	276	573	30	193	51	61	393	866	322	718	

NAINI TAL
The 30th July, 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPEN

FORM

FOREST DEPARTMENT,

Annual Summary of Revenue and Expenditure

REVE

Classification.	Direction Division.	Kumaun Division including Naini Tal and Ránikhet Sub-divisions.	Garhwál Division.	Dehra Dún Division.
I.—REVENUE FROM WOOD.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. Brought to depôt by departmental agency—				
(a.)—Timber	...	K. 88,566 14 1	46,299 0 6	4,285 8 10
(b.)—Firewood and charcoal	...	N. 5,673 2 8	...	1,148 6 0
(c.)—Sandal-wood ...	...	...	...	...
2. Wood removed from the forests by puchasers, license-holders, and permit-holders—				
(a.)—Timber	...	K. 97,909 9 2 N. 3,393 6 4 R. 6,150 13 6	82,280 12 11	29,714 14 1
(b.)—Firewood and charcoal	...	K. 4,514 13 5 N. 7,828 15 10 R. 4,717 3 0	752 6 6	8,552 9 9
3. From confiscated, drift, and waif-wood	...	K. 490 5 6	403 12 0	56 12 6
II.—REVENUE FROM MINOR PRODUCE.				
1. Grazing dues and sale of grass	...	K. 8,329 5 2 N. 140 8 0 R. 72 4 0	5,231 0 4	16,300 8 3
2. Other minor produce ...	...	K. 16,748 13 3 N. 180 0 0 R. 293 7 9	3,735 6 9	6,365 9 7
III.—DUTY ON PRODUCE OF FOREIGN OR PRIVATE FORESTS IMPORTED INTO BRITISH TERRITORY.				
1. On wood	...	...	...	...
2. On other forest produce ...	...	...	...	...
IV.—MISCELLANEOUS.				
1. From fines and forfeitures ...	...	K. 1,576 7 11 N. 210 7 10 R. 25 0 0	587 3 4	211 9 0
2. From refunds to the Department	593 8 9	K. 16 15 3 N. 12 0 0 R. 1 8 6	858 1 2	287 4 9
3. From other sources ...	...	K. 18 2 4 N. 571 4 0 R. 625 2 0	175 4 0	109 10 5
Total Receipts ...	593 8 9	K. 2,18,166 6 1 N. 18,009 12 8 R. 11,885 6 9	1,40,322 15 6	67,032 13 2

DIX VI.

No. 49.

NORTH-WESTERN PROVINCES.

of the different Divisions during 1876-77.

NUE.

Jaunsár Division.	Bhagirathi Division.	Gorakhpur Division.	Jhánsi Division.	Rohilkhand Division.	TOTAL.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,64,717 1 11	86,240 11 0	9,787 5 4	1,091 12 11	990 12 5	4,01,979 3 0
33,575 10 5	1,120 0 0	92 8 6	516 13 8	...	42,126 9 3
...	...	...	...	...	...
253 6 5	110 8 0	21,973 0 11	1,955 6 2	108 8 0	2,43,850 5 6
1,327 12 5	29 15 9	10,034 4 2	42 9 0	3,468 12 3	41,269 6 1
147 8 6	51 8 0	110 0 0	0 1 9	401 10 0	1,661 10 3
1,472 15 6	...	2,462 7 3	2,579 0 3	1,527 9 6	38,115 10 3
392 6 9	77 8 0	180 5 0	1,486 14 4	4,465 0 6	33,920 7 11
...	...	...	...	...	...
...	...	...	...	...	...
343 5 9	4 0 0	57 10 6	5 4 6	213 2 8	3,234 3 6
1,083 9 0	330 4 0	114 1 5	19 1 0	...	3,316 5 10
314 7 6	...	340 2 0	412 0 0	3,181 0 0	5,747 0 3
2,03,628 4 2	87,964 6 9	45,951 13 1	8,108 15 7	14,356 7 4	8,15,220 13 10

APPEN
FORM
FOREST DEPARTMENT,
Annual Summary of Revenue Expenditure
EXPEN

Classification.	Direction Division.	Kumaun Division including Naini Tal and Bánikhet Sub-divisions.	Garhwál Division.	Dehra Dún Division.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—CONSERVANCY AND WORKS.				
I.—Cost of Timber Operations.				
1. On wood brought to depôt by departmental agency—				
(a.)—Timber	...	K. 27,842 3 7	49,470 7 11	6,631 8 2
(b.)—Firewood and charcoal,	...	N. 4,514 7 11	...	235 1 3
(c.)—Sandal-wood ...	...	...	...	...
2. On wood removed from the forests by purchasers, license-holders, and permit-holders—				
(a.)—Timber	...	K. 6,131 10 1	4,530 8 9	...
(b.)—Firewood and charcoal.	...	N. 104 1 0	...	...
3. On confiscated, drift, and waif-wood	...	...	...	11 13 6
II.—Cost of collecting minor produce.				
1. Grazing and sale of grass ...	...	...	...	100 0 0
2. Other forest produce ...	...	K. 6,278 11 6	4,771 6 11	1,886 7 2
III.—Cost of Forest Organization.				
1. Demarcation lines, and boundary pillars or marks ...	...	K. 17 3 6 N. 45 0 0 R. 39 2 0	96 0 0	191 4 10
2. Working plans	...	...	...	...
3. Surveys	...	N. 3 0 0	...	...
IV.—Cost of the Treatment and Creation of Forests.				
1. Natural Forests—				
(a.)—Protection from fire ...	...	K. 4,300 0 0 N. 227 15 0 R. 369 2 3	917 15 10	2,037 4 3
(b.)—Fencing and enclosing	...	R. 476 3 4	...	...

DIX VI.

No. 49.

NORTH-WESTERN PROVINCES.

of the different Divisions during 1876-77.

DITURE.

Jaunsár Division.	Bhagirathi Division.	Gorakhpur Division.	Jhánsi Division.	Rohilkhand Division.	TOTAL.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
...					
1,45,693 12 8	1,14,384 8 0	6,915 4 4	386 14 4	411 10 7	3,51,736 5 7
27,093 4 2	1,306 13 8	9 8 0	296 1 7	...	33,485 4 7
...	...	...	...	...	...
...	...	...	190 4 8	...	10,852 7 6
...	...	...	...	...	104 1 0
...	278 2 4	...	...	212 13 9	502 13 7
...	...	...	270 0 0	...	370 0 0
...	2 0 0	...	333 9 0	90 5 4	12,862 7 11
16 6 0	...	7 2 0	400 0 0	...	812 2 4
100 0 6	...	...	...	...	100 0 6
...	...	10 11 0	...	...	13 11 0
549 15 0	...	573 0 11	250 0 0	...	9,225 5 3
...	...	...	...	...	476 3 4

APPEN

FORM

FOREST DEPARTMENT,

Annual Summary of Revenue Expenditure

EXPENDI

Classification.	Direction Division.	Kumaun Division including Naini Tal and Ránikhet Sub-divisions.	Garhwál Division.	Dehra Dún Division.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
(c.)—Improvement and conservation	...	N. 607 9 0	...	444 13 3
(d.)—"Réboisement" or restoration of denuded areas,	...	R. 177 1 5	95 10 0	...
2. Artificial forests—				
(a.)—Formation	...	R. 1,089 8 8	...	5 13 4
(b.)—Protection from fire ...	...	...	...	...
(c.)—Improvement and conservation	...	...	...	...
(d.)—Fencing and enclosing,	...	R. 302 10 10	...	...
V.—Rent of leased Forests.	...	...	...	702 0 0
VI.—Cost of collecting Duty on Produce of foreign or private Forests imported into British territory.				
VII.—Works of utility for the development of Forests.				
1. Roads and bridges ...	...	K. 13,669 6 1 N. 244 14 0 R. 333 4 3	2,343 10 9	40 0 0
2. Buildings and offices ...	51 0 0	K. 4,098 15 3 R. 475 6 5	75 7 3	774 0 6
3. Compensation for land taken up for forest purposes, or for extinction of forest rights ...	...	K. 816 1 6 R. 3,466 1 6	...	...
4. Other works	...	...	...	1,824 2 1
VIII.—Cost of Departmental Cattle.				
1. Purchase of stock ...	...	...	...	...
2. Hire of stock	...	...	...	...
3. Feed and keep of cattle ...	...	K. 1,266 1 10	1,203 2 8	4,181 3 11
IX.—Cost of Departmental Tools and Plant.				
1. For timber and wood operations	...	K. ... N. 361 10 0 R. 200 0 0	...	6 9 0
2. For other purposes ...	...	K. 2,199 10 10 N. 165 6 0 R. 365 9 0	...	379 8 9

DIXV I.

No. 49.

NORTH-WESTERN PROVINCES.

of the different Divisions during 1876-77.

TURE.—*(continued).*

Jaunsár Division.	Bhagirathi Division.	Gorakhpur Division.	Jhánsi Division.	Rohilkhand Division.	TOTAL.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,386 4 4	...	10 12 6	286 7 3	...	3,735 14 4
950 13 11	...	584 2 8	0 12 0	...	1,808 8 0
...	...	57 15 6	...	...	1,153 5 6
...	...	...	...	...	...
...	...	52 0 0	...	...	52 0 0
...	...	12 14 6	...	...	315 9 4
...	10,000 0 0	...	...	...	10,702 0 0
14,428 1 0	1,545 13 4	...	100 0 0	4,679 0 0	37,384 1 5
3,870 4 4	...	327 11 8	84 13 9	5 2 0	9,762 13 2
132 2 6	...	...	...	...	4,414 5 6
210 2 6	200 0 0	...	...	...	2,234 4 7
...	...	...	...	...	...
...	...	...	...	...	...
514 1 4	173 14 9	448 10 0	...	...	7,787 2 6
80 0 0	...	9 12 0	1 13 0	...	659 12 0
663 0 0	37 14 0	164 12 0	...	...	3,975 12 7

APPEN
FORM
FOREST DEPARTMENT,
Annual Summary of Revenue Expenditure
EXPENDI

Classification.	Direction Division.	Kumaun Division including Naini Tal and Ránikhet Sub-divisions.	Garhwál Division.	Dehra Dún Division.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
X.—Miscellaneous Charges.				
1. Refunds	...	N. 2 8 0	...	...
2. Law charges	...	N. 10 2 0	...	17 8 0
3. Other charges	...	K. 134 5 6 N. 12 3 0 R. 7 12 7	121 4 9	138 15 0
Total of A.—Conservancy and Works	51 0 0	K. 66,754 5 8 N. 6,328 11 11 R. 7,301 14 3	63,625 10 10	19,108 1 0
B.—ESTABLISHMENTS.				
I.—Salaries.				
1. Pay of Conservator ...	12,100 0 0	...	...	...
2. Pay of Control and Executive Officers	5,254 13 5	K. 7,386 8 7 N. .. R. 3,330 10 4	13,753 13 10	9,686 4 2
3. Protective establishments ...	...	K. 2,843 0 9 N. 965 13 0 R. 3,175 5 4	3,321 2 4	4,637 4 0
4. Office establishments ...	6,628 11 10	K. 900 0 0 N. 120 0 0 R. ...	1,200 0 0	1,880 0 0
5. Deputation and special allowances	...	K. 3,000 0 0 N. ... R. 1,800 0 0	...	500 0 0
II.—Travelling Allowances.				
1. Conservator	2,179 4 0	...	...	...
2. Control and Executive Officers	464 0 0	K. 1,941 0 0 N. 996 0 0 R. 229 12 0	979 8 0	1,637 15 5
3. Protective establishments ...	...	K. ... N. ... R. 20 14 1	174 1 11	...
4. Office establishments ...	995 14 1	K. 176 8 9 N. 9 1 6	252 0 0	111 7 6
III.—Contingencies.				
1. Stationery	13 12 0	K. 125 1 8 N. 19 12 9 R. 56 13 9	96 12 0	277 6 6
2. Carriage of tents and records	784 3 6	K. 581 4 2 N. 5 1 5 R. 9 12 6	236 12 8	256 8 8
3. Pay of Police guards ...	372 0 0	...	...	...
4. Sundries	401 1 8	K. 20 5 2 N. 40 8 0 R. 19 5 0	35 11 5	95 0 9
5. Official postage	319 2 6	K. 170 10 0 N. 7 15 0 R. 18 9 6	107 5 6	54 0 0
Total of B.—Establishments ...	29,542 15 0	K. 17,144 7 1 N. 2,164 3 8 R. 8,661 2 6	20,157 3 8	19,085 15 0
Grand Total of all Expenditure,	29,593 15 0	K. 83,898 12 9 N. 8,492 15 7 R. 15,963 0 9	83,782 14 6	38,194 0 0

Naini Tal
The 17th May, 1877.

DIX VI.

No. 49.

NORTH-WESTERN PROVINCES.

of the different Divisions during 1876-77.

TURE.—*(concluded).*

Jaunsár Division.	Bhagirathi Division.	Gorakhpur Division.	Jhánsi Division.	Rohilkhand Division.	TOTAL.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
627 8 0	1,917 8 0	17 8 0	...	...	2,565 0 0
...	15 7 8	...	...	...	43 1 8
175 4 6	...	20 13 10	5 0 0	3 0 0	618 11 2
1,97,491 0 9	1,29,862 1 9	9,222 10 11	2,605 11 7	5,401 15 8	5,07,753 4 4
...	...	...	...	...	12,100 0 0
12,175 3 0	8,800 0 0	5,300 0 3	...	...	65,687 5 7
192 0 0	948 0 0	5,879 8 0	2,176 8 6	859 13 5	24,998 7 4
1,260 0 0	900 0 0	636 0 0	...	1,030 15 0	14,505 10 10
...	...	...	...	...	5,300 0 0
...	...	...	...	...	2,179 4 0
3,907 2 8	1,762 4 0	1,276 0 0	...	...	13,193 10 1
...	...	...	...	...	195 0 0
485 6 8	354 10 8	202 15 4	...	...	2,588 0 6
36 6 6	11 14 0	24 1 3	22 8 0	14 5 6	698 13 11
517 12 6	502 15 0	277 5 4	...	...	3,171 11 9
359 0 0	...	...	...	...	731 0 0
155 7 0	56 11 0	128 7 6	5 3 0	1 2 9	958 15 3
90 14 6	20 14 0	25 5 0	24 7 0	...	869 3 0
19,179 4 10	13,357 4 8	13,749 10 8	2,228 10 6	1,906 4 8	1,47,177 2 3
2,16,670 5 7	1,43,219 6 5	22,972 5 7	4,834 6 1	7,308 4 4	6,54,930 6 7

G. GREIG,
Conservator of Forests, N.-W. P.

APPENDIX VII.

FORM No. 50.

Forest Department, North-Western Provinces, Account Current for the year 1876-77.

Dr.

Year.	Heads of Account.	Rs.	a.	p.
1876-77.	*To Cash Balance in hand on 1st April, 1876.*			
	1. Direction Office Division ...	153	10	10
	2. Kumaun „	7,318	4	10
	2A. Naini Tal Sub-division	...		
	2B. Ránikhet „	...		
	3. Garhwál Division	26,703	6	4
	4. Dehra Dún „	2,209	7	11
	5. Jaunsár „	10,108	11	4
	6. Bhagirathi „	49	8	9
	7. Gorakhpur „	4,948	9	10
		51,491	11	10
	To Revenue received during the year.			
	1. Direction Office Division ...	593	8	9
	2. Kumaun „	2,18,166	6	1
	2A. Naini Tal Sub-division	18,009	12	8
	2B. Ránikhet „	11,885	6	9
	3. Garhwál Division	1,40,322	15	6
	4. Dehra Dún „	67,032	13	2
	5. Jaunsár „	2,03,628	4	2
	6. Bhagirathi „	87,964	6	9
	7. Gorakhpur „	45,151	13	1
	8. Jhánsi „	8,108	15	7
	9. Rohilkhand „	14,356	7	4
		8,15,220	13	10

Cr.

Year.	Heads of Account.	Rs.	a.	p.
1876-77.	*By expenditure of the Department during the year.*			
	1. Direction Office Division	29,593	15	0
	2. Kumaun „	83,898	12	9
	2A. Naini Tal Sub-division	8,492	15	7
	2B. Ránikhet „	15,963	0	9
	3. Garhwál Division	83,782	14	6
	4. Dehra Dún „	38,194	0	0
	5. Jaunsár „	2,16,670	5	7
	6. Bhagirathi „	1,43,219	6	5
	7. Gorakhpur „	22,972	5	7
	8. Jhánsi „	4,834	6	1
	9. Rohilkhand „	7,308	4	4
		6,54,930	6	7
	By advances made during the year.			
	1. Direction Office Division	1,360	3	0
	2. Kumaun „	550	0	0
	2A. Naini Tal Sub-division	2,560	6	5
	2B. Ránikhet „	500	0	0
	3. Garhwál Division	500	0	0
	4. Dehra Dún „	1,132	11	10
	5. Jaunsár „	75,050	0	0
	6. Bhagirathi „	...		
	7. Gorakhpur „	5,426	5	3
	8. Jhánsi „	325	0	0
		87,404	10	6

1876-77.

To remittances from State Treasuries during the year.

1.	Direction Office Division	30,180	5	5
2.	Kumaun "	89,086	15	0
2A.	Naini Tal Sub-division	8,500	0	0
2B.	Ránikhet "	16,288	7	6
3.	Garhwál Division	84,755	0	0
4.	Dehra Dún "	37,202	0	0
5.	Jaunsár "	2,14,799	13	0
6.	Bhagirathi "	1,42,869	0	0
7.	Gorakhpur "	24,000	0	0
8.	Jhánsi "	4,834	6	1
9.	Rohilkhand "	7,329	4	4
		6,59,845	3	4

To transfer remittances from other Departments during the year.

1.	Direction Office Division ...	0	5	0
2.	Kumaun "	1,259	8	6
2A.	Naini Tal Sub-division	325	14	0
2B.	Ranikhet "	117	11	7
3.	Garhwál Division	215	15	9
4.	Dehra Dún "	2,424	2	1
5.	Jaunsar "	4,619	14	1
6.	Bhagirathi "	1,927	7	8
7.	Gorakhpur "	6	2	10
		10,897	1	6

To advances recovered during the year.

1.	Direction Office Division... ...	805	3	0
2.	Kumaun "	2,495	0	0
2A.	Naini Tal Sub-division	2,335	4	5
2B.	Ránikhet "	500	0	0
3.	Garhwál Division	...		
4.	Dehra Dún "	532	11	10

1876-77.

By remittances of Revenue to State Treasuries.

1.	Direction Office Division	1,074	4	9
2.	Kumaun "	2,04,515	2	6
2A.	Naini Tal Sub-division	10,012	5	2
2B.	Ránikhet "	2,035	15	9
3.	Garhwál Division	1,42,757	6	6
4.	Dehra Dún "	61,688	6	6
5.	Jaunsár "	21,203	13	9
6.	Bhagirathi "	15,972	9	9
7.	Gorakhpur "	47,798	6	7
8.	Jhánsi "	8,108	15	7
9.	Rohilkhand "	14,377	7	4
		5,29,544	14	2

By transfer remittances to other Departments.

1.	Direction Office Division	55	3	0
2.	Kumaun "	12,853	3	7
2A.	Naini Tal Sub-division	8,000	5	4
2B.	Ránikhet "	9,832	7	0
3.	Garhwál Division	3,853	0	0
4.	Dehra Dún "	1,428	8	9
5.	Jaunsár "	1,83,124	6	5
6.	Bhagirathi "	81,991	13	0
		3,01,139	15	8

By deposits repaid.

2A.	Naini Tal Sub-division	1,162	0	0

By provincial services unforeseen and miscellaneous.

6.	Bhagirathi Division	29	10	8

By remittance loan repaid to Bhagirathi Division.

5.	Jaunsár Division as per contra	10,000	0	0

APPENDIX VII.

FORM No. 50—(*concluded.*)

Forest Department, North-Western Provinces Account Current for the year 1876-77.

Dr.

Year.	Heads of Account.	Rs.	a.	p.
1876-77.	5. Jaunsár Division	77,050	0	0
	6. Bhagirathi „	...		
	7. Gorakhpur „	5,497	10	1
	8. Jhánsi „	325	0	0
		89,540	13	4
	To fund deductions during the year, Government of India.			
	1. Direction Office Division	480	12	0
	2. Kumaun „	213	0	0
		693	12	0
	To deposits.			
	2A. Naini Tal Sub-division	1,168	0	0
	To remittances loan to Jaunsár Forest Division.			
	6. Bhagirathi Division remittance loan to Jaunsár Division.	10,000	0	0
		51,491	11	10
	To cash balance on 1st April, 1876.			
	1. Direction Office Division... ...	593	8	9
	2. Kumaun „	2,05,313	2	6
	2A. Naini Tal Sub-Division... ...	10,009	6	9
	2B. Ránikhet „	2,051	15	9

Cr.

Year.	Heads of Account.	Rs.	a.	p.
1876-77.	*By cash balances on 31st March,* 1877.			
	1. Direction Office Division	130	3	3
	2. Kumaun „	16,721	15	7
	2A. Naini Tal Sub-division	110	14	0
	2B. Ránikhet „	459	2	4
	3. Garhwál Division	21,104	0	7
	4. Dehra Dún „	6,957	7	11
	5. Jaunsár „	4,158	0	10
	6. Bhagirathi „	1,596	15	4
	7. Gorakhpur „	3,407	2	5
		54,645	14	3

By Expenditure of the Departments.

Year.	Heads of Account.	A.			B.			Rs.	a.	p.
1876-77.	1. Direction Office Division ...	51	0	0+	29,542	15	0	29,593	15	0
	2. Kumaun „ ...	66,754	5	8+	17,144	7	1	83,898	12	9
	2A. Naini Tal Sub-division ...	6,328	11	11+	2,164	3	8	8,492	15	7
	2B. Ránikhet „ ...	7,301	14	3+	8,661	2	6	15,963	0	9
	3. Garhwál Division ...	63,625	10	10+	20,157	3	8	83,782	14	6
	4. Dehra Dún „ ...	19,108	1	0+	19,085	15	0	38,194	0	0
	5. Jaunsár „ ...	1,97,491	0	9+	19,179	4	10	2,16,670	5	7
	6. Bhagirathi „ ...	1,29,862	1	9+	13,357	4	8	1,43,219	6	5
	7. Gorakhpur „ ...	9,222	10	11+	13,749	10	8	22,972	5	7
	8. Jhánsi „ ...	2,605	11	7+	2,228	10	6	4,834	6	1
	9. Rohilkhand „ ...	5,401	15	8+	1,906	4	8	7,308	4	4
		5,07,753	4	4+	1,47,177	2	3	6,54,930	6	7

1876-77.

To revenue received in cash.

3.	Garhwál Division	1,36,469	15	6
4.	Dehra Dún „	65,604	4	5
5.	Jaunsár „	20,753	13	9
6.	Bhagirathi „	5,972	9	9
7.	Gorakhpur „	45,151	13	1
8.	Jhánsi „	8,108	15	7
9.	Rohilkhand „	14,356	7	4
		5,14,386	1	2

To revenue adjusted by book transfer.

1.	Public Works Department ...	39,136	13	0
2.	State Railways	2,18,492	8	0
3.	Commissariat Department ...	42,857	14	9
4.	Military Department, Bengal ...	273	6	0
5.	Superintendent, Harness and Saddlery Factory, Cawnpore	74	2	11
		3,00,834	12	8

To remittances from State Treasuries.

1.	Direction Office Division... ...	30,180	5	5
2.	Kumaun „	89,086	15	0
2A.	Naini Tal Sub-division... ...	8,500	0	0
2B.	Ránikhet „	16,288	7	6
3.	Garhwál Division	84,755	0	0
4.	Dehra Dún „	37,202	0	0
5.	Jaunsár „	2,14,799	13	0
6.	Bhagirathi „	1,42,869	0	0
7.	Gorakhpur „	24,000	0	0
8.	Jhánsi „	4,834	6	1
9.	Rokilkhand „	7,329	4	4
		6,59,845	3	4

1876-77.

By revenue remittances to State Treasuries.

1.	Direction Office Division	1,074	4	4
2.	Kumaun „	2,04,515	2	6
2A.	Naini Tal Sub-division	10,012	5	2
2B.	Ránikhet „	2,035	15	9
3.	Garhwál Division	1,42,757	6	6
4.	Dehra Dún „	61,688	6	6
5.	Jaunsár „	21,203	13	9
6.	Bhagirathi „	15,972	9	9
7.	Gorakhpur „	47,798	6	7
8.	Jhánsi „	8,108	15	7
9.	Rohilkhand „	14,377	7	4
		5,29,544	14	2
	By revenue remittances adjusted by book transfer	3,01,139	15	8
	„ Advance recoverable	87,404	10	6
	„ Deposits repaid	1,162	0	0
	„ Provincial services unforeseen and miscellaneous	29	10	8
	„ Remittance Loan repaid	10,000	0	0
	„ Cash Balance on 31st March, 1877	54,645	14	3
	Carried forward ...	16,38,857	7	10

APPENDIX VII.

FORM No. 50—(*concluded.*)

Forest Department, North-Wertern Provinces, Account Current for the year 1876-77.

Dr. | *Cr.*

Year.	Heads of Account.	Rs. a. p.	Year.	Heads of Account.	Rs. a. p.
				Brought forward ...	16,38,857 7 10
	To remittances by transfer from other Departments.				
1876-77.	Superintendent, Roorkee Workshops ...	1,356 5 0			
	Public Works Department	1,824 7 1			
	State Railways	2,826 5 7			
	Medical and Military Department, Bengal...	3,925 2 10			
	Accountant-General, Central Provinces ...	600 0 0			
	Ditto ditto, Panjab	309 10 0			
	Forest Department Direction Division ...	55 3 0			
		10,897 1 6			
	To contribution to Funds. Uncovenanted Service Family Pension Fund ...	480 12 0			
	Military and Orphan,	213 0 0			
		693 12 0			
	To advances recoverable	89,540 13 4			
	„ Deposits	1,168 0 0			
	„ Remittance Loan	10,000 0 0			
	TOTAL ...	16,38,857 7 10		TOTAL, ...	16,38,857 7 10

NAINI TAL
The 30*th July*, 1877.

G. GREIG,
Conservator of Forests, North-Western Provinces.

APPENDIX VIII

FORM No. 51.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Annual Statement of Outstandings and Liabilities on account of Contractors, 1876-77.

DIVISION.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE		REMARKS.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings.)	By Department (Liabilities.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction	...	655 3 0	655 3 0	...	1,210 3 0	1,210 3 0	555 0 0	...	
Kumaun	1,042 11 7	8,853 12 2	9,896 7 9	3,500 0 0	9,501 7 9	13,001 7 9	3,105 0 0	...	
Naini Tal Sub-division ...	...	8,080 10 1	8,080 10 1	...	8,299 12 1	8,299 12 1	225 2 0	6 0 0	
Ránikhet ditto ...	...	...	...	...	...	...	...	...	
Garhwál	16,154 10 2	29,022 10 0	45,177 4 2	3,081 4 2	48,715 10 3	51,796 14 5	7,121 7 0	501 12 9	
Dehra Dún	...	6,026 6 9	6,026 6 9	50 0 0	2,976 6 9	3,026 6 9	...	3,000 0 0	
Jaunsár	19,954 10 2	35,813 1 6	55,767 11 8	2,099 12 8	51,312 1 8	53,411 14 4	2,099 12 8	4,455 10 0	
Bhagirathi	...	63,593 6 2	63,593 6 2	5,000 0 0	1,13,892 4 11	1,18,892 4 11	55,298 14 11	...	
Gorakhpur	1,884 0 9	2,966 5 0	4,850 5 9	1,788 14 0	4,113 13 0	5,902 11 0	1,663 14 0	611 8 9	
Jhánsi	...	...	...	...	...	...	...	...	
Lalitpur	...	...	...	...	...	...	...	...	
Bareilly	...	...	...	...	...	...	...	...	
Bijnor	...	447 11 1	447 11 1	...	462 11 1	462 11 1	15 0 0	...	
Total ...	39,036 0 8	1,55,459 1 9	1,94,495 2 5	15,519 14 10	2,40,484 6 6	2,56,004 5 4	70,084 2 7	8,574 15 6	

DATED NAINI TAL
The 30th July, 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPENDIX IX.

FORM No. 51.

FORESTS DEPARTMENT, NORTH-WESTERN PROVINCES.

Statement of Outstandings and Liabilities on account of Disbursers, 1876-77.

Division.	Department Debtor.			Department Creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings.	By Department (Liabilities.)	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction	...	...	...	...	...	...	...	...	
Kumaun	...	43,889 1 10	43,889 1 10	23,540 15 11	31,466 0 1	55,007 0 0	11,117 14 2	...	
Naini Tal Sub-division ...	...	...	...	...	...	...	...	...	
Ránikhet ditto ...	...	...	...	...	...	...	...	...	
Garhwál	...	369 6 11	369 6 11	400 0 0	2,369 6 11	2,769 6 11	2,400 0 0	...	
Dehra Dún	...	2,144 11 6	2,144 11 6	4,010 14 11	2,686 0 10	6,696 15 9	4,552 4 3	...	
Jaunsár	...	76,350 0 0	76,350 0 0	26,300 0 0	75,050 0 0	1,01,350 0 0	25,000 0 0	...	
Bhágirathi	...	1,499 7 7	1,499 7 7	...	1,499 7 7	1,499 7 7	...	...	
Gorakhpur	...	5,497 10 1	5,497 10 1	585 11 5	5,426 5 3	6,012 0 8	514 6 7	...	
Jhánsi Division, Jhánsi Forests,	...	919 15 10	919 15 10	...	919 15 10	919 15 10	...	...	
,, Lalitpur ,,	...	534 8 4	534 8 4	61 7 3	845 8 4	906 15 7	372 7 3	...	
Rohilkhand ,, Bareilly ,,	...	...	...	...	...	...	...	...	
,, ,, Bijnor ,,	...	1,505 2 0	1,505 2 0	...	1,505 2 0	1,505 2 0	...	...	
Total ...	...	1,32,710 0 1	1,32,710 0 1	94,899 1 6	1,21,767 14 10	1,76,667 0 4	43,957 0 3	...	

DATED NAINI TAL,
The 30th July, 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPENIX X.

FORM No. 52.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Statement of outstandings on accoun tof revenue, 1876-77.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	TOTAL	Amount realized during year.	Balance due to the Department at end of year.	REMARKS
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction	*Nil.*	...	...	...	...	...	
Kumaun	Sale of timber	8,759 5 2	42,156 0 1	50,915 5 3	40,677 2 8	10,238 3 0	
Naini Tal Sub-division ...	*Nil.*	...	...	...	...	...	
Ránikhet do. ...	*Nil.*	...	...	...	...	...	
Garhwál	Sale of timber	3,745 0 0	...	3,745 0 0	3,745 0 0	...	
Dehra Dún	Sale of timber and other produce, &c.,	100 9 0	...	100 9 0	...	100 9 0	
Jaunsár	Do. and firewood, &c., ...	10,821 9 1	73,934 7 3	84,756 0 4	81,622 7 2	3,133 9 2	
Bhagirathi	Sale of Sleepers	...	80,852 8 0	80,852 8 0	80,852 8 0	...	
Gorakhpur	Sale of timber and other minor produce,	1,283 14 3	33,794 9 1	35,078 7 4	33,730 13 9	1,347 9 7	
Jhánsi Division, Jhánsi Forests.	*Nil.*	...	...	...	...	...	
Do., Lalitpur do.,	*Nil.*	...	...	...	...	...	
Rohilkhand Division, Bareilly Forests.	*Nil.*	...	...	...	...	...	
Do., Bijnor do.,	Sale of timber	11 0 0	344 15 5	355 15 5	355 15 5	...	
	Total ...	24,721 5 6	2,31,082 7 10	2,55,803 13 4	2,40,983 14 7	14,819 14 9	

DATED NAINI TAL
Dated 30th July 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPEN
FORM
FOREST DEPARTMENT,
Statement of Trees felled

Division.	Forest range.	Locality.	Description of trees.	On hand from previous year.		Felled during current year.	
				No.	C. ft.	No.	C. ft.
Kumaun ...	Bhábar Forest, including all fire lines.	Durgadeb ...	Sál ...	...	...	959	14,111
		Roorderchour ...	Sein ...	...	...	120	...
		Amgauri ...	Haldú ...	...	...	83	...
		Mohán ...	Tún ...	...	...	1	47,000
		Fatehpur, &c. ...	Chír ...	...	...	548	...
			Kúkat ...	...	...	1,153	...
			Total ...	...	...	2,864	61,119
Garhwál ...	Patli Dún ...	Mainagari ...	Sál ...	...	...	214	12,107
	Gorighát ...	Mundhal ...	Sein ...	...	...	2,072	65,675
	Ditto ..	Gori ...	Baukli ...	...	...	30	398
	Ditto ...	Dugada, Kona, Matakatal.	Kúkat ...	...	...	17,800	...
			Total ...	...	...	20,116	78,180
Dehra Dún ...	Eastern Dún ...	Balawala ...	Sál ...	...	...	25,775	...
	Ditto ...	Ditto ...	Kúkat ...	...	...	462	...
			Total ...	...	...	25,637	...
Jaunsár ...	Benalgád ...	Belekas, Gatúgád Bhújkate Panekinal.	Deodar ...	*357	...	*953	...
		Enangoiká Thats	Rai ...	19	...	380	...
		Konain Forest ...	Kail ...	...	...	50	...
	Deota ...	Partil ...	Deodar ...	...	...	†1,763	...
	Bawar ...	Kurauli ...	Chír ...	...	...	406	...
			Total ...	376	...	3,552	...
Bhagirathi ...	...	Sartigarh block...	Deodar ...	...	...	1,089	...
		Gungotri „ ...	Ditto ...	...	...	159	...
		Nelang „ ...	Ditto ...	...	...	1,432	...
		Gum Gam „ ...	Ditto ...	...	...	1,151	...
			Total ...	...	...	‡3,831	...
Gorakhpur ...	Ramgarh ...	Blocks I. II. V.	Sál ...	...	...	46,747	...
	Ditto ...	„ „ ...	Mahúá ...	...	...	1,067	...
	Jilkonian ..	„ II. ...	Karwa & Jamú,	...	...	244	...
	Nagina ...	„ VI. ...	Sein & Babera,	...	...	24,637	...
	Sonasi ...	„ VIII. IX. ...	Kajrowta&Asid,	...	...	716	...
	Bhari Baisi ...	„ II. III. ...	Piarna & Panan,	...	...	108	...
	Dudhai ...	„ III.	Agoi & Mango,	...	...	16	...
	West Lehra ...	„ I. II. III....	Parar ...	...	...	7	...
			Total ...	...	...	73,542	...
Jhánsi ...	Babina Circle ...	Babina and Neah Khera.	Kurdhai ... Dhon ...	453	...	1,961	...
			Total ...	453	...	1,961	...
Rohilkhand (Bijnor).	Rehar Forest ...	Nagina ...	Sál ...	...	...	2,723	...
			Total ...	...	...	2,723	...
			Grand Total ...	829	...	134,226	139,299

DATED NAINI TAL
The 30th July, 1877.

DIX XI

No. 53.

N.-W. PROVINCES.

during the year 1876-77.

Total.		Disposed of during current year.			Closing balance.		Remarks.
No.	C. ft.	How disposed of.	No.	C. ft.	No.	C. ft.	
959	14,111	Converted into logs and scantlings ...	959	14,111	...	...	
120 63 1 548 1,153	47,000	Ditto into sleepers and scantlings ...	1,905	47,000	...	...	
2,864	61,119	..	2,864	61,119	...	...	
214	12,107	Converted into sleepers and karis ...	214	12,107	...	...	
2,072	65,675	Ditto into various scantlings ...	2,072	65,675	...	...	
30	398	Ditto into logs ...	30	398	...	...	
17,800	...	Ditto into ballas, ballis, and tors ...	17,800	...	...	...	
20,116	78,180	..	20,116	78,180	...	.	
25,175	...	Converted into karis, tors, &c. ...	25,175	...	...	...	
462	...	...	462	..	...	...	
25,637	...	..	25,637	...	...	...	
*1,310	...	Converted into various scantlings ...	402	...	888	...	* Of these 135 were dead trees.
399	...	Ditto ditto ...	294	...	105	...	
50	...	*Nil* ...	...	...	50	...	
†1,763	...	Converted into sleepers ...	1,076	...	687	...	† Of these 842 were dead trees.
406	...	Ditto various scantlings ...	206	...	200	...	
3,928	...	.	1,978	...	1,950		
1,089	...	Converted into sleepers ...	...	...	...	..	
159	...	Ditto ditto ...	...	...	...	...	
1,432	...	Ditto ditto ...	3,216	49,276	615	...	
1,151	...	Ditto ditto ...	...	...	...	...	
3,831	...	..	3,216	49,276	615		‡ Of these 2,977 were dead trees.
46,747	...	Carted to Depôt .. Sold locally ...	23,923 14,138	...	8,686	...	
1,067	...	Ditto ...	970	...	97	...	
244	...	Ditto ...	244	...	...	...	
22,637	...	Ditto ...	24,637	...	...	...	
716	..	Ditto ...	716	...	...	...	
108	...	Ditto ...	108	...	...	...	
16	...	Ditto ...	16	...	...	...	
7	...	Ditto ...	7	...	...	...	
73,542	..	. .	64,759	...	8,783	.	
2,414	...	Converted into ballis and karya ... Wastage ...	1,961 52	...	401	...	
2,414	.	...	2,013	...	401	..	
2,723	...	Converted into ballis ...	2,723	...	...	...	
2,723	...	...	2,723	...	...	...	
135,055	188,575	.	123,306	118,675	11,749	.	

G. GREIG,
Conservator of Forests, N.-W. P.

APPEN
FORM

FOREST DEPARTMENT,

Statement of Logs, Sleepers and other Scantlings cut

Division.	Forest range.	Locality.	Description of timber and scantlings.	On hand from previous year. No.	C. Ft.
KUMAUN ...	Bhábar ... Forests including all fire lines.	Durgadeh ...	Sál logs ...	12	545
		Rooderchour ...	„ karís ...	17,890	27,860
		Amgauri ...	„ kolhús ...		
		Mohan ...	„ other kinds ...		
			Haldu logs, &c. ...	470	838
			„ karís ...		
			Sein „ ...		
			Tún planks ...		
			Dhouri and ballis, karís		
			Jamun „		
			Kukath „		
			Chir „		
			„ sleepers		
			Total ...	18,372	29,243
GARHWÁL ...	Kotri Dún ...	Sanai ...	Sál logs ...	3	36
	Ditto ...	Ditto ...	„ karís ...	26	44
	Patli Dún ...	Mainagari ...	„ sleepers ...	...	...
	Kotri Dún ...	Sanai ...	„ other kinds ...	1	.
	Gorighat ...	Gori and Mundhal	Sein logs ...	30	...
	Ditto ...		„ karís ...	4,000	6,666
	Ditto ...	Dugadakona and Malakatal.	Kukat ballas, &c. ...	...	...
	Ditto ...	Gori ...	Bahli logs ...	...	...
			Total ...	4,060	6,746
DEHRA DÚN ...	Eastern Dún ...	...	Sál karís ...	...	...
			„ tors and ballis ...	47	...
			Tún planks ...	3	...
			Kukat scantlings ...	4,040	...
			Total ...	4,090	...
JAUNSÁR ...	Benalgad ...	Kunain ...	Deodar logs ...	24	...
			„ karís ...	509	...
			„ planks ...	...	...
			„ shingles ...	10,525	...
	Deota ...	Partil ...	„ sleepers ...	2,645	...
	Benalgad ...	Kunain ...	Rai scantlings ...	14,710	...
	Bawar ...	Karauli ...	Chir karís ...	6,029	...
			Total ...	34,442	...
BHÁGIRATHI ...		Sartigarh block, &c.	Deodar sleepers ...	11,755	15,673
			Sál pieces ...	35	358
			Various other scantlings.	737	889
			Total ...	12,527	16,920
GORAKHPUR ...	Ramgarh ...	Blocks, I. II. V. ...	Sál logs ...	59	875
	Ditto ...	Ditto ...	„ pieces ...	...	...
	Ditto ...	Ditto ...	Mahuá logs ...	...	...
			„ dharano ...	...	...
			Total ...	59	875
JHÁNSI ...	Jhánsi forest ...	Babina and Noah Khera.	Ballis ...	...	...
	Lalitpur ...	...	Ditto ...	3,258	...
			Korya ...	67	...
			Total ...	3,325	...
ROHILKHAND (BIJNOR.)	Rehar (Bijnor) ...	Nagina ...	Sál ballis ...	...	...
			Total ...	...	...
			Grand Total ...	76,875	53,784

DATED NAINI TAL
The 30th July, 1877.

DIX XII.

No. 54.

NORTH-WESTERN PROVINCES.

and exported during the year 1876-77.

Cut during current year.		Total.		Disposed of during current year.			Closing balance.		Remarks.
No.	C. Ft.	No.	C. Ft.	How disposed of.	No.	C. Ft.	No.	C. Ft.	
33	1,209	45	1,754	Carried to depôt,	45	1,754	...	...	
7,832	12,902	25,722	40,762	Ditto ...	24,943	39,699	779	1,063	
24,028	63,659	24,498	64,497	Ditto ...	17,818	44,058	6,680	20,439	
31,893	67,770	50,265	1,07,013	...	42,806	85,511	7,459	21,502	
...	...	3	36	Carried to depôt,	3	36	...	...	
...	..	36	44	Ditto ...	26	44	...	...	
6,888	12,107	6,888	12,107	Ditto ...	550	2,865	6,338	9,243	
...	...	1	...	Ditto ...	1	...	...	...	
...	..	30	...	Ditto ...	...	..	30	...	
41,051	67,636	45,051	74,302	Ditto ...	5,550	8,627	39,501	65,675	
17,760	...	17,760	...	Ditto ...	10,000	...	7,760	...	
30	398	30	398	Ditto ...	30	398	...	...	
65,729	80,141	69,789	86,857	...	16,160	11,970	53,62	74,917	
6,089	...	6,089	...	Carried to depôt,	5,291	...	798	...	
22,131	...	22,178	...	Ditto ...	21,014	...	1,164	...	
...	...	3	...	Ditto ..	3	...	...	...	
472	...	4,512	...	Ditto ...	4,512	...	...	...	
28,692	...	32,782	...	...	30,820	...	1,962	...	
...	...	24	...	Carried to depôt,	24	...	...	...	
8,449	...	8,958	...	Ditto ...	8,958	...	...	...	
3,903	...	3,903	...	Ditto ..	3,903	...	...	...	
...	...	10,525	...	Ditto ...	10,525	...	...	...	
31,221	...	33,866	...	Ditto ...	33,866	...	...	...	
10,773	...	25,483	...	Ditto ..	25,135	...	348	...	
3,635	...	9,664	...	Ditto ...	6,029	...	3,635	...	
57,981	...	92,423	...	...	88,440	1,68,309	3,983	...	
56,762	1,82,627	68,517	1,98,300	Couched ...	*58,517	1,63,578	10,000	*34,722	* Of these only 22,740 =69,889 cubic feet, reached the Depôt.
..	...	35	358	Carried to depôt,	35	358	...	...	
...	...	737	889	Ditto ...	737	889	...	...	
56,762	1,82,627	69,289	1,99,547	...	59,289	1,64,825	10,000	34,722	
43	519	102	1,894	Carried to depôt,	102	1,394	...	...	
23,909	...	23,909	...	Ditto ...	23,909	...	...	...	
33	...	33	...	Ditto ..	...	...	33	...	
64	...	64	...	Ditto ...	...	...	64	...	
2,4049	519	24,108	1,394	...	24,011	1,394	97	...	
1,961	...	1,961	...	Carried to depôt,	1,961	...	...	...	
...	...	3,258	...	Ditto ...	3,258	...	...	...	
...	...	67	...	Ditto ...	67	...	...	...	
1,961	..	5,286	...	...	5,286	...	...	..	
1,723	...	1,723	...	...	1,723	...	...	..	
1,723	...	1,723	...	...	1,723	...	...	...	
268,790	3,41,057	3,45,665	3,94,841	...	268,535	4,32,009	77,130	1,31,141	

G. GREIG,

Conservator of Forests, North-Western Provinces.

APPENDIX XIII.

FORM No. 55.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Statement of Timber and other produce brought to depôt from the different Forest Divisions, 1876-77.

Division.	Forest.	Description of timber, &c.	No. of Pieces.	No. of Cubic feet.	Total of each Division. Pieces.	Total of each Division. Cubic feet.	Remarks.
				′ ″ ‴			
Kumaun ...	...	Sál logs	71	3,358 3 0			
		„ karis	24,025	38,128 4 8			
		„ kolus	3	139 3 2			
		„ other kinds	892	1,113 5 11			
		Haldu logs and bohtas ...	22	626 3 8			
		„ karis	549	890 3 4			
		Sein „	2,041	3,334 4 10			
		Tún planks	57	33 3 8			
		Douri baukli karis ...	28	46 4 8			
		Jaman karis	1,723	2,866 6 10			
		Kutrukh „	5,519	11,627 8 4			
		Chír „	2,183	3,579 8 8			
		„ sleepers	5,693	19,767 4 4			
					42,806	85,511 4 3	
Naini Tal ...	...	Firewood Mds.,	18,161¼	...	Mds. 18,161¼		
Garhwál ...	...	Sál logs	3	36 0 0			
		„ karis	26	44 4 0			
		„ sleepers	550	2,864 7 0			
		„ other kinds	1	...			
		Kokat ballis and ballas, &c.,	10,000	...			
		Sein kokat karis ...	5,550	8,627 2 4			
		Baukli logs	30	397 0 0			
		Bamboos	6,314	...			
					22,474	11,969 11 4	
Dehra Dún ...	...	Sál karis	4,636	...			
		Kokat „	20	...			
		Damaged „	555	...			
		Tún planks	3	...			
		Ballis	8,983	...			
		Other kinds	16,523	...			
		Haland karis	100	...			
					30,820		

			Charcoal	Mds.,	727½	...		Mds.	727½			
			Firewood	Mds.,	2,993	...		Mds.	2,993			
Jaunsár	...	...	Deodar karis ...	...	8,958							
			„ sleepers ...	...	33,866							
			„ planks ...	...	3,903							
			„ logs ...	...	24							
			Rai karis ...	...	2,287							
			„ shingles ...	...	10,525							
			Chir karis ...	...	6,029							
			Rai pieces and planks	...	683							
			„ ballis ...	...	433							
			Other timber ...	...	21,732							
			Fuel	Mds.,	155,822-32	...			88,440	168,309	4	4
									155,822-32			
Bhagirathi	...	...	Deodar logs ...	...	...	...						
			„ sleepers ...	...	22,740	69,889	0 0					
			Sál pieces ...	...	35	358	3 7					
			Timber other kinds	...	7.7	888	5 5					
			Firewood	Mds.,	8,890½	...			23,512	7 ,135	9	0
									8.890½			
Gorakhpur	...	...	Sál logs ...	...	102	1,393	10 4					
			Timber other kinds	...	23,909	...						
			Firewood	Mds.,	6	...			24,011	1,393	10	4
			Charcoal	Mds.,	510-8½	...			6			
									510-8½			
Jhánsi	...	Jhánsi ...	Bamboos ...	...	5,135	...						
			Ballis ...	...	1,961	...						
			Total, Jhánsi ...	...	7,096	...						
		Lalitpur	Bamboos ...	...	217,021	...						
			Ballis ...	...	3,258	...						
			Korga ...	...	67	...						
			Total, Lalitpur ...	...	220,346	...						
Rohilkhand	...	Bijnor ...	Sál ballis ...	...	2,723	...			227,442 2,723			
			Total ...		Timber ...		No.		462,228	3,38,320	3	3
					Charcoal ...		Mds.		1,237-28½			
					Firewood ...		Mds.		1,85,653-22			

DATED NAINI TAL
The 30th July, 1877.

G. GREIG,
Conservator of Forests. N.-W. Provinces.

APPENDIX XIV.

FORM No. 56.

Forest Department, North-Western Provinces, Account of Timber and other Produce, 1876-77.

Particulars.		Pieces. No.	Pieces. Cubic feet.	Total. No.	Total. Cubic feet.
Balance in hand at commencement of year.			′ ″ ‴		′ ″ ″
Kumaun Divn.	Sál logs	541	24,468 3 6		
	„ karis	34,378	57,336 7 2		
	„ other kinds ...	1,225	3,642 2 8		
	Timber all other kinds ...	3,186	7,403 10 0		
	Haldú pieces all kinds ...	5,368	9,976 4 3	44,698	102,827 3 7
Garhwál Divn.	Sál logs	41	1,635 8 3		
	„ karis	77,485	118,709 5 6		
	„ other kinds ...	5,948	44,180 5 0		
	Timber all other kinds ...	17,388	38,023 11 2	100,862	202,549 5 11
Naini Tal Sub-Divn.	*Nil*	...	...	...	...
Dehra Dún Divn.	Sál karis	49	...		
	„ other kinds ...	175	...		
	Timber all other kinds ...	26,205	...	26,429	...
Jaunsár Divn.	Deodar karis & sleepers,	7,156	...		
	„ planks and rai karis,	12,091	...		
	Rai ballis, &c. ...	33	...		
	Timber all other kinds ...	18,295	...	37,575	78,611 2 8
Bhágirathi Divn.	Sál pieces	5	48 0 0		
	Deodar logs... ...	573	...		
	„ karis and sleepers,	328	...		
	Timber all other kinds ...	338	103 0 0	1,244	151 0 0
	Firewood and charcoal ..	mds. 10,385¼	...	mds. 10,385¼	...
Gorakhpur Divn.	Sál logs	315	5,190 0 0		
	Timber all other kinds ...	11,329	240 0 0	11,674	5,430 0 0
Jhánsi Divn.	Timber various kinds and bamboos.	36,683	...	36,683	...
Roahilkhand Dist., Bijnor.	Sál ballis	700	...	700	...
	Total ... Timber ...		...	259,865	389,569 0 2
	Total ... Firewood and charcoal.		...	mds. 10,385¼	...
Received during the year.					
Kumaun Divn.	Sál logs	71	3,358 3 0		
	„ karis	24,025	38,138 4 8		
	„ other kinds ...	895	1,252 9 1		
	Haldu all kinds ...	571	1,516 7 0		
	Timber all other kinds ...	17,244	41,255 4 6	42,806	85,511 4 3

APPENDIX XIV.

FORM No. 56.

Forest Department, North-Western Provinces, Account of Timber and other Produce, 1876-77—(continued.)

	Particulars.	Pieces. No.	Pieces. Cubic feet.	Total. No.	Total. Cubic feet.
			' " '''		' " '''
Naini Tal Sub-Divn.	Firewood ...	mds. 18,161¼	...	mds. 18,161¼	...
Garhwal Divn.	Sál logs ...	3	36 0 0		
	„ karis ...	26	44 4 0		
	„ other kinds ...	551	2,864 7 0		
	Timber all other kinds ...	21,894	9,025 0 4	22,474	11,969 11 4
Dehra Dún Divn.	Sál karis	4,636	...		
	„ other kinds ...	...	...		
	Timber all other kinds ...	26,184	...	30,820	...
	Firewood and charcoal ...	mds. 13,720½	...	mds. 3,720½	...
Jaunsár Divn.	Deodar logs... ...	24	...		
	„ karis and sleepers,	42,824	...		
	Rai ballis	433	...		
	Deodar planks and rai káris.	23,427	...		
	Timber all other kinds ...	21,732	...	88,440	168,309 4 4
	Firewood and charcoal ...	mds. seers. 155,522 32	...	mds. seers. 1,55,522 32	..
Bhágirathi Divn.	Deodar sleepers ...	22,740	69,889 0 0		
	Sál pieces	35	358 3 7		
	Timber all other kinds ...	737	888 5 5	2?,512	71,135 9 0
	Firewood and charcoal ...	mds. 8,890½	...	mds. 8,890½	...
Gorakhpur Divn.	Sál logs	102	1,393 10 4		
	Timber all other kinds ...	23,909	...	24,011	1,393 10 4
	Firewood and charcoal ...	mds. seers. 516 8½	...	mds. seers. 516 8½	....
Jhánsi Divn.	Timber various kinds and bamboos.	227,442	...	227,442	...
Rohilkhan Divn. Bijnor.	Sál ballis	2,723	...	2.723	...
	Total ... Timber ...		...	462,228	3,38,320 3 3
	Total ... Firewood and charcoal ...		...	mds. seers. 1,86,811 10½	...
	Removed by purchasers.				
Kumaun Divn.	Sál logs	182	7,653 1 11		
	„ karis	28,471	46,866 10 0		
	„ other kinds ...	1,813	3,339 11 3		
	Haldú all kinds ...	4,550	8,769 2 1		
	Timber all other kinds ...	15,196	38,878 10 5	50,212	105,507 11 8

APPENDIX XIV.

FORM No. 56.

Forest Department, North-Western Provinces, Account of Timber and other Produce, 1876-77—(continued.)

	Particulars.	Pieces. No.	Pieces. Cubic feet.	Total. No.	Total. Cubic feet.
			′ ″ ‴		′ ″ ‴
Naini Tal Sub-Divn.	Firewood	mds. 18,161¼	...	mds. 18,161¼	...
Garhwál Divn.	Sál logs	17	469 9 10		
	„ karis	13,237	23,346 7 6		
	„ other kinds ...	1,572	8,207 8 5		
	Timber all other kinds ...	22,739	26,203 0 5	37,565	58,227 2 2
Dehra Dún Divn.	Timber all other kinds ...	3,418	...	3,418	...
	Firewood and charcoal ...	mds. 3,720½	...	mds 3,720½	...
Jaunsár Divn.	Deodar logs ...	24	...		
	„ karis and sleepers,	38,943	...		
	Rai ballis	196	...		
	Deodar planks and rai karis.	1,125	...		
	Timber all other kinds ..	9,061	...	49,349	136,675 10 0
	Firewood	mds. seers. 117,033 4	...	mds seers. 117,033 4	...
Bhágirathi Divn.	Deodar logs... ...	573	...		
	„ sleepers ...	20,920	69,889 0 0		
	Sál pieces	40	406 3 7		
	Timber all other kinds ...	561	625 11 5	22,094	70,921 3 0
	Firewood and charcoal ...	mds. 11,430	...	mds. 11,430	...
Gorakhpur Divn.	Sál logs	397	5,588 4 4		
	Timber all other kinds ...	10,293	84 0 0	10,690	5,672 4 4
	Firewood and charcoal ...	mds. seers. 516 8¼	...	mds. seer. 516 8¼	...
Jhánsi Divn.	Timber various kinds and bamboos.	184,691	...	184,691	...
Rohilkhand Divn.	(Bijnor) Sál ballis ...	3,368	...	3,368	...
	Total ...	Timber ...	...	361,387	3,7,004 7 2
		Firewood and charcoal ...	...	mds. seers. 150,861 2½	...
Lost or used by the department.					
Kumaun Divn.	Sál karis	2	3 7 4		
	„ other kinds ...	2	2 8 0		42 11 4
	Timber all other kinds ...	24	36 8 0	28	
Garhwál Divn.	Sál other kinds ...	2	94 2 10	2	94 2 10
Dehra Dún Divn.	Sál karis	6	...	282	...
	Timber other kinds ...	276	...		
Jaunsár Divn.	Deodar karis and sleepers,	679	...		
	Ditto planks and rai karis.	57	...		
	Timber all other kinds ...	16,295	...	17,031	12,756 1 5

APPENDIX XIV.

FORM No. 56.

Forest Department, North-Western Provinces, Account of Timber and other Produce, 1876-77—(concluded.)

Particulars.		Pieces. No.	Pieces. Cubic feet.	Total. No.	Total. Cubic feet.
			' " "'		' " "'
Gorakhpur-Bhágirathi Divn.	Timber all other kinds ...	483	365 6 0	483	365 6 0
	Firewood	mds. 501¼	...	mds. 501¼	
Gorakhpur Divn.	Timber all other kinds ...	5,646	...	5,646	
Jhánsi Divn.	Timber various kinds and bamboos.	192	...	192	
Total ...	Timber ...		...	23,664	13,258 9 7
	Firewood and charcoal.		...	mds. 501¼	
Balance in hand at close of year.					
Kumaun Divn.	Sál logs	430	20,173 4 7		
	„ karis	29,930	48,594 6 6		
	„ other kinds ..	305	1,552 4 6		
	Haldu all kinds ...	1,389	2,723 9 2		
	Timber all other kinds ...	5,210	9,743 8 1	37,264	82,787 8 10
Garhwál Divn.	Sál logs	27	1,201 10 5		
	„ karis	61,274	95,407 2 0		
	„ other kinds ...	4,925	38,743 0 9		
	Timber all other kinds ...	16,543	20,845 11 1	85,769	1,56,198 0 3
Dehra Dún Divn.	Sál karis	4,679	..		
	„ other kinds ...	175	...		
	Timber all other kinds ...	48,695	...	53,549	
Jaunsár Divn.	Deodar karis and sleepers.	10,358	...		
	„ planks and rai karis.	26,400	...		
	Rai ballis	270	...		
	Timber all other kinds ...	22,607	...	59,635	97,488 7 7
	Fire wood	mds. seers. 38,489 28	...	mds. seers. 38,489 28	
Bhágirathi Divn.	Deodar sleepers ...	2,148	..		
	Timber all other kinds ...	31	...	2,179	
	Firewood	mds. 7,344½	...	mds. 7,344½	
Gorakhpur Divn.	Sál logs	50	995 6 0		
	Timber all other kinds ...	19,299	156 0 0	19,349	1,151 6 0
Jhánsi Divn.	Timber various kinds and bamboos	79,242	...	79,242	
Rohilkhand Divn. (Bijnor.)	Sál ballis	55	...	55	
Total ...	Timber ...		...	337,042	337,625 10 8
	Firewood and charcoal.		...	mds. seers. 45,834 8	
Grand Total ...	Timber ...		...	722,093	727,889 3 5
	Firewood and charcoal.		...	mds. seers. 197,196 20½	

Dated Naini Tal
The 30th July, 1877.

G. GREIG,
Conservator of Forests, N-W. Provinces.

APPENDIX XV.

FORM No. 57.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Statement showing the amount realized on account of the different classes of Timber and other produce sold during 1876-77.

Division.	Description of Timber, &c.	No. of pieces, &c., sold.	Cubic contents.	Amount realized and due on account of sale.	Average amount per log, &c.	Average cubical contents of log.	Average amount per cubic foot.	REMARKS.
			′ ″ ‴	Rs. a. p.	Rs. a. p.	′ ″ ‴	Rs. a. p.	
Kumaun ...	Sál logs	182	7,653 1 11					
	„ karís	28,471	46,866 10 0					
	„ other kinds	1,813	3,339 11 3					
	Haldu all kinds	4,550	8,769 2 1					
	Timber other kinds	15,196	38,878 10 5					
	Total ...	50,212	1,05,507 11 8	91,096 15 10	1 13 0	2 1 2	0 13 9	
Naini Tál ...	Firewood	Mds. 18,161¼	...	5,673 2 8	0 4 11	per maund	...	
Garhwál ...	Sál logs	17	469 9 10					
	„ karís	13,237	23,346 7 6					
	„ other kinds	1,572	8,207 8 5					
	Timber other kinds	22,739	20,203 0 5					
	Total ...	37,565	58,227 2 2	47,823 5 0	1 4 4	1 6 7	0 13 1	
Dehra Dún ...	Timber other kinds	3,418	...	1,123 4 10	0 5 3	...	...	
	Firewood	Mds. 2,993	...	728 4 0	0 4 11	...	...	
	Charcoal	„ 727½	...	400 2 0				

Jaunsár ...	Deodar logs	24	...	...	...	...	...	...
	Karis and sleepers	38,943	...	...	...	...	...	...
	Rai ballis	196	...	...	...	...	...	...
	Timber others kinds	1,125	...	...	...	...	...	...
	Deodar planks and Rai karis ...	9,061	...	...	...	...	...	...
		Mds. sr.						
	Firewood	155,822-32	...	...	...	...	...	...
	Total Pieces ...	40,349	1,36,675 10 0	1,57,046 9 5	3 2 11	2 9 2	1 2 4	
	Total Fuel, Mds. ...	155,822-32	...	33,558 3 0	0 3 5	per maund,	...	
Bhagirathi ...	Deodar logs	573	...	...	...	...	...	
	„ sleepers	20,920	69,889 0 0	...	...	...	...	
	Sál other kinds	40	406 3 7	...	...	...	...	
	Timber other kinds	561	625 11 5	...	...	...	...	
	Firewood	Mds. 11,430	...	...	...	...	...	
	Total Pieces ...	22,094	70,9 1 3 0	85,168 11 0	3 13 8	3 2 6	1 3 2	
	Total Mds. ...	11,430	...	1,120 0 0	0 1 6	per maund,	...	
Gorakhpur ...	Sál logs	397	5,588 4 4	...	...	...	...	
	Timber other kinds	Mds. 10,293	84 0 0	...	...	...	...	
	Firewood	6	... *	1 0 0	...	...	...	
	Charcoal	Mds. 510-8½	...	90 10 9	0 2 10	per maund,	...	
	Total Pieces ...	10,690	5,672 4 4	9,833 15 1	0 4 7	...	...	
Jhánsi ...	Timber other kinds and bamboos ...	184,691	... *	1,091 12 11	0 0 1	...	...	
Rohilkhand (Bijnor),	Sál ballis	3,368	... *	979 12 5	0 4 7	...	...	

		4,35,755 12 11
Deduct amount received in advance and credited under Head I. in 1875-76	...	7,036 3 10
Balance	...	4,28,719 9 1
Deduct amount due but not realized during the year	...	9,285 7 3
Balance	...	4,19,434 1 10
Add amount realized on account of former years	...	19,358 9 0
Add also amount realized for other kinds of timber, firewood, &c.	...	1,822 14 8
Add also amount received in advance for timber for 1877-78	...	3,490 2 9
Total, shown as revenue on account of sales under Budget Head I.	...	4,44,105 12 3

* In these Divisions most of the timber was disposed of at so much per log or piece, so the cubical contents of the full amount sold cannot be given, whilst with reference to the requirements of columns 7 and 8 of this statement, it has been deemed advisable to omit all mention of the contents even of so much timber as was sold by cubic measurements.

DATED NAINI TAL
The 30th July, 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPENDIX XVI.

FORM No. 58.

FOREST DEPARTMENT, NORTH-WESTERN PROVINCES.

Statement showing the amount expended on the different classes of timber and other produce brought to Depôt during 1876-77.

Divisions.	Particulars of timber, &c.	No. of Pieces.	No. of Cubic contents.	Expenditure: Timber expenses under A. I.	Expenditure: Quota of all other expenditure chargeable against timber, &c.	Expenditure: Total amount chargeable against timber, &c.	Average: Amount per piece.	Average: Cubic contents per piece.	Average: Amount per cubic foot.	Remarks.
			′ ″ ‴	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
KUMAUN.	Sál logs ...	71	3,358 3 0	...	...	...	...	...	...	
	Sál karis ...	24,025	38,128 4 8	...	...	...	...	...	...	
	Sál wood of other kinds.	895	1,252 9 1	...	...	...	...	...	...	
	Haldu, all kinds ...	571	1,516 7 0	...	...	...	...	...	...	
	Timber of all other kinds.	17,244	41,255 4 6	...	...	...	...	...	...	
	Total ...	42,806	85,511 4 3	27,842 3 7	14,817 0 0	42,659 0 0	1 0 0	2 0 0	0 8 0	
NAINI TAL. SUB-DN.	Firewood ...	18,161¼	Maunds.	4,544 7 11	1,512 0 0	6,056 0 0	...	...	0 5 3	Per maund.
GARHWÁL.	Sál logs ...	3	36 0 0	...	...	...	...	...	...	The timber expenses under A. I. in column 5 Rs. 49,470 include the cost of carriage of a large quantity of timber that was brought to Depôt in 1875-76, the cost of carriage of that timber being shown here and not the timber, it is obvious that the average of 5-10-0 per cubic foot is not a true average.
	Sál karis ...	26	44 4 0	...	...	...	...	...	...	
	Sál of other kinds ...	551	2,864 7 0	...	...	...	...	...	...	
	Timber of other kinds,	21,894	9,025 0 4	...	...	...	...	...	...	
	Total ...	22,474	11,969 11 4	49,470 7 11	14,487 0 0	63,957 7 11	2 13 0	0 6 0	5 10 0	

Dehra Dún.	Sál karís ...	4,636	...	...	...	...	...	...	...	...	The cubic contents of the Dehra Dún timber not being known, the amount per cubic foot cannot be given.
	Sál other kinds ...	...	...	...	...	...	...	...	...	...	
	Timber of different kinds.	26,184	...	...	...	...	...	...	...	...	
	Total ...	30,820	...	6,631 8 2	8,174 0 0	14,805 8 2	0 7 0	...	...		
	Charcoal ...	727	Maunds.	181 14 0	...	181 14 0	...	...	0 4 0	Per maund.	
	Firewood ...	2,993	Maunds.	53 3 0	...	53 3 0	...	...	0 0 3		
Jaunsár.	Deodar karís ...	8,958	...	...	...	...	...	...	...	The cubic contents of the Deodar karis and Rai ballis not being known, this is not a true average.	
	Deodar logs ...	24	289 11 10	...	...	...	...	...	...		
	Deodar sleepers ...	33,866	1,12,660 6 8	...	...	...	...	...	...		
	Rai ballis ...	433	...	...	...	...	...	...	...		
	Timber of other kinds,	21,732	23,024 2 10	...	...	...	...	..	...		
	Deodar planks and Rai karís.	23,427	32,334 7 0	...	...	...	...	...	...		
	Total ...	88,440	1,68,309 4 4	1,45,693 12 8	32,801 0 0	1,78,494 12 8	2 6 0	2′ 2″ 0	1 1 6		
	Firewood ...	...	2,56,920 0 0	27,093 4 2	2,584 0 0	29,677 4 2	...	...	0 1 6	Per cubic foot.	
Bhagirathi.	Deodar logs ...	...	...	...	...	...	...	...	...		
	Deodar sleepers ...	22,740	69,889 0 0	...	...	...	...	...	...		
	Sál pieces ...	35	358 3 7	...	...	...	...	...	...		
	Timber, other kinds...	737	888 5 5	...	...	...	...	...	...		
	Total ...	23,512	71,135 9 0	1,14,384 8 0	23,220 0 0	1,37,604 0 0	5 13 0	3′ 0 0	1 15 0		
	Firewood ...	8,890	Maunds.	1,306 13 8	330 0 0	1,636 13 8	...	...	0 3 0	Per maund.	
Gorakhpur.	Sál logs ...	102	1,393 10 4	...	...	...	...	...	...	The average per cubic foot cannot be given, as the cubic contents of the 23,909 pieces of timber of other kinds is not ascertainable.	
	Timber, other kinds	23,909	Not known.	...	...	...	...	...	...		
	Total ...	24,011	1,393 10 4	6,915 4 4	6,176 0 0	13,091 4 4	0 9 0	...	...		
	Firewood ...	6	Maunds.	9 8 0	...	9 8 0	...	...	0 0 3	Per maund.	
	Charcoal ...	510									
Jhánsi Dist	Timber of different kinds.	227,442	...	386 14 4	300 0 0	686 14 4	...	...	0 4 9	Per % almost entirely bamboos.	
Rohilkhand (Bijnor Dist.)	Sál ballis ...	2,723	...	411 10 7	303 0 0	714 10 7	0 4 0	...	...	The average per cubic foot cannot be given, as the cubic contents of the sál ballis is not known.	
	Totals ...	462,228	3,38,320 0 0	3,84,925 8 4	1,04,704 0 0	4,89,628 4 10	...	...	...		

Dated Naini Tal,
The 30th July, 1877.

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPEN

FORM

FOREST DEPARTMENT, NORTH-

Statement shewing the revenue derived from, and expenditure incurred on, timber and other

Name of Department.	Particulars of supplies.	Amount supplied.	Rate At	Rate Per	Amount of Due.	Amount of Received.
			Rs. a. p.		Rs. a. p.	Rs. a. p.
Rajputana State Railway.	Chír sleeper,	5,130	2 8 0	Sleeper,	12,825 0 0	12,825 0 0
	Súl ditto.	1,494	2 8 0	...	3,745 0 0	3,745 0 0
	Deodar ditto.	428	2 8 0	...	1,070 0 0	1,070 0 0
		′ ″ ‴				
Roorkee workshops ...	Sál logs 50	2,341 6 1	1 8 0	cubic foot	3,512 4 2	...
Ordnance Department, Calcutta.	Bamboo shafts,	1,550	..	...	59 14 0	59 14 0
Commtt. Department, Naini Tal.	Fuel ...	mds. 18,080½	31 4 0	% mds.,	5,650 2 5	5,650 2 5
" " Chakráta,	Ditto (oak)	lbs. 82,059	0 4 0	80 lbs.,	256 6 11	256 6 11
	Ditto (fir)	c. feet 59,622	15 12 0	% c. f.,	9,140 7 4	9,140 7 4
	Ditto ...	" 147,810	14 0 0	Ditto ...	20,592 9 7	20,592 9 7
Northern Division, Ganges Canal, Roorkee.	Tún planks	25	30 0 0	Score ...	37 8 0	37 8 0
	Ditto ditto	7	25 0 0	...	8 12 0	8 12 0
	Jaman ditto	30	18 0 0	...	27 0 0	27 0 0
	Ditto ditto	25	16 0 0	...	20 0 0	20 0 0
	Ditto ditto	126	15 0 0	...	94 8 0	94 8 0
	Kokat tarans	400	1 0 0	...	20 0 0	20 0 0
	Sein logs ...	Cubic feet 110	0 10 0	cubic foot	69 5 0	69 5 0
		′ ″ ‴				
II. Chakráta Division M. W. Public Works Department.	Deodar karis,	12,732 9 1	1 8 0	...	19,136 12 2	18,901 8 10
	Ditto ditto	6 0 0	1 4 6	...	10 5 0	10 5 0
	Ditto ditto	3 0 0	1 4 0	...	3 12 0	3 12 0
	Rai karis, &c.,	6,6 6 1 0	1 0 0	...	6,636 1 0	6,636 1 0
	Ditto ballis 100.	400 0 0	3 11 0	each	368 12 0	331 14 0
I. Chakráta Road Division.	Deodar logs 24	447 1 9	0 12 0	cubic foot	335 11 0	335 11 0
	Ditto karis	2,823 9 0	1 8 0	...	4,235 10 0	4,235 10 0
Sindia State Railway,	Ditto sleepers	49,859 0 0	4 0 0	each	1,99,436 0 0	1,99,436 0 0
Muttra Light Railway	Ditto ditto	700 0 0	2 0 0	...	1,400 0 0	1,400 0 0
	Ditto ditto	33 0 0	0 8 0	...	16 8 0	16 8 0
					2,88,708 4 7	2,84,923 15 1

DATED NAINI TAL
The 30th July, 1877.

DIX XVII.

No. 59.

WESTERN PROVINCES.

produce sold to Public Departments from Depôt during the year 1876-77.

revenue.	*Cost to Forest Department.*				*Comparison of revenue and expenditure.*		Remarks.
Outstanding.	Timber expenses under A. I.	Quota of all other expenditure chargeable against timber, &c.	Total.		Surplus.	Deficit.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	
...	3,850 12 0	927 11 4	4,778 7 4		8,046 8 8	...	
...	1,571 2 0	60 0 0	1,631 2 0		2,113 14 0	...	
...	835 14 10	334 11 1	1,170 9 11		...	100 9 11	
3,512 4 2	1,610 0 0	121 15 3	1,731 15 3		1,780 4 11	...	
...	54 7 0	...	54 7 0		5 7 0	...	
...	4,524 5 1	1,505 4 8	6,029 9 9		...	379 7 4	
...	192 5 2	...	192 5 2		64 1 9	...	
...	7,154 10 5	819 4 0	7,973 14 5		1,165 8 11	...	
...	15,889 9 2	1,931 6 0	17,820 15 2		2,771 10 5	...	
...	...	...	...		37 8 0	...	
...	...	...	...		8 12 0	...	
...	...	...	...		27 0 0	...	
...	...	...	...		20 0 0	...	
...	...	...	...		94 8 0	...	
...	...	...	...		20 0 0	...	
...	10 5 0	51 9 0	61 14 0		7 7 0	...	
235 3 4	9,549 9 1	1,211 2 6	10,760 11 7		8,376 0 7	...	
...	4 8 0	1 2 0	5 10 0		4 11 0	...	
...	2 4 0	0 9 0	2 13 0		0 15 0	...	
...	4,977 1 0	722 4 9	5,699 5 9		936 11 3	...	
36 14 0	250 0 0	18 12 0	268 12 0		100 0 0	...	
...	335 11 0	...	335 11 0		...	...	
...	2,117 13 0	256 4 0	2,374 1 0		1,861 9 0	...	
...	1,44,559 6 0	33,947 8 0	1,78,506 14 0		20,929 2 0	...	
...	1,050 0 0	222 8 0	1,272 8 0		127 8 0	...	
...	13 3 2	5 0 0	18 3 2		...	1 11 2	
3,784 5 6	1,98,552 13 11	42,136 15 7	2,40,689 13 6		48,500 3 6	481 12 5	
			Deduct deficit ...		481 12 5	...	
			Balance for the department ...		48,018 7 1	...	

G. GREIG,
Conservator of Forests, N.-W. Provinces.

APPEN

FORM

FOREST DEPARTMENT,

Abstract showing the value of Timber and of

	Description of timber and other stock.	On hand at commencement of the year.		Received during the year.		Total.	
		No.	Value.	No.	Value.	No.	Value.
			Rs. a. p		Rs. a. p.		Rs. a. p.
KUMAUN DIVISION.	Sál logs ...	541	36,702 7 0	71	7,541 6 4	612	44,243 13 4
	„ karis ...	34,378	60,029 15 2	24,025	38,803 10 5	58,403	98,833 9 7
	„ other kinds ...	1,225	4,267 13 10	895	2,603 7 3	2,120	6,871 5 1
	Haldu pieces all kinds.	5,368	5,815 3 5	571	663 8 0	5,939	6,478 11 5
	Timber other kinds,	3,186	3,777 7 11	17,244	22,381 14 5	20,430	26,159 6 4
		44,698	1,10,592 15 4	42,806	71,993 14 5	87,504	1,82,586 13 9
	Elephants ...	4	8,000 0 0	...	...	4	8,000 0 0
	Tools and plant, &c.,	3,112	3,355 3 0	1,289	*2,199 10 10	4,401	5,554 13 10
	Buildings ...	8	6,000 0 0	3	1,456 0 0	11	7,456 0 0
	Gunpowder ...	...	...	℔2,300	1,159 8 0	℔2,300	1,159 8 0
		47,822	1,27,948 2 4	44,098	76,809 1 3	91,920	2,04,757 3 7
NAINI TAL SUB-DIVISION.	Firewood ...	...	...	Mds. 18,161¼	5,673 2 8	Mds. 18,161¼	5,673 2 8
	Tools and plant, &c.,	*163	*429 8 0	6,353	†527 0 0	6,536	956 8 0
		163	429 8 0	6,353	6,260 2 8	6,536	6,629 10 8
RÁNIKHET SUB-DIVISION.	Tools and plant, &c.,	* 175	322 2 0	170	565 9 0	345	887 11 0
	Buildings ...	§6	§3,100 0 0	1	250 0 0	7	3,850 0 0
		181	3,422 2 0	171	815 9 0	352	4,237 11 0
GARHWÁL DIVISION.	Sál logs ...	41	1,226 12 3	3	11 14 7	44	1,238 10 10
	„ karis ...	77,485	1,13,410 12 8	26	77 0 0	77,511	1,13,487 12 8
	„ other kinds ...	5,948	62,643 9 5	551	3,610 7 1	6,499	66,254 0 6
	Timber other kinds,	17,388	21,767 11 10	21,894	4,455 1 8	39,282	26,222 13 6
		100,862	1,99,048 14 2	22,474	8,154 7 4	123,336	2,07,203 5 6
	Elephants ...	2	3,000 0 0	...	...	2	3,000 0 0
	Tools and plant, &c.,	3,033	2,547 6 0	...	...	3,033	2,547 6 0
	Buildings ...	4	5,022 0 0	...	...	4	5,022 0 0
		103,901	2,09,618 4 2	22,474	8,154 7 4	126,375	2,17,772 11 6
DEHRA DÚN DIVISION.	Sál karis ...	49	17 2 4	4,636	7,805 6 5	4,685	7,822 8 9
	„ other kinds ...	175	262 8 0	...		175	262 8 0
	Timber other kinds,	26,205	7,250 8 (	26,184	14,203 11 3	52,389	21,454 3 3
	Firewood and charcoal.	...	...	Mds. 3,720½	1,148 6 0	Mds. 3,720½	1,148 6 0
		26,429	7,530 2 4	30,820	23,157 7 8	57,249	30,687 10 0

DIX XVIII.

No. 60.

NORTH-WESTERN PROVINCES.

Live and Dead Stock for the year 1876-77.

Sold, otherwise disposed of, and lost during the year, and allowance for depreciation.					On hand at close of the year.					Cause of loss and other particulars.
No.	Value.				No.	Value.				
	Rs.	a.	p.			Rs.	a.	p.		
182	13,287	15	4		430	30,955	14	0		
*a*28,473	*a*48,691	5	11		29,930	50,142	3	8		(*a*.) This includes 2 karis worth Rs. 3-9-0, stolen.
*b*1,815	4,878	7	2		305	1,992	13	11		(*b*.) Ditto 2 pieces worth Rs. 2-11-0, used for departmental purposes.
4,550	3,923 *c*1,172	8 4	7 8	}	1,389	1,382	14	2		(*c*.) Depreciation on account of sale at reduced rates.
*d*15,220	20,509	7	7		5,210	5,649	14	9		(*d*.) Includes 24 pieces of Rs. 18 worth used for departmental purposes.
50,240	92,463	1	3		37,264	90,123	12	6		
*2	*4,000	0	0		2	4,000	0	0		* Transferred to Dehra Dún and Jaunsár Division.
371	493	11	10		4,030	5,061	2	0		(*e*.) Includes charges for repairs of tools, &c.
...	...				11	7,456	0	0		
lbs1,700	559	8	0		*f*600	*f*,600	0	0		(*f*.) Includes price of empty powder barrels, &c.
50,613	97,516	5	1		41,307	1,07,240	14	6		
Mds. 18,161¼	5,673	2	8		...	...				
1	0	4	0		6,535	956	4	0		* These were not shown at all last year, as no return was received from this sub-division. † Includes repairs of tools, &c.
1	5,673	6	8		6,535	956	4	0		
5	176	14	0		340	710	13	0		
...	...				7	3,350	0	0		§ These were not shown at all last year, as no return was received from this sub-division.
5	176	14	0		347	4,060	13	0		
17	144	9	9		27	1,094	1	1		
13,237	15,716	13	1		64,274	89,509	10	5		
1,574	*h*11,648	9	1		4,925	54,682	7	5		(*h*.) Price of one piece twice measured excluded and one piece worth Rs. 10 burnt.
22,739	20,323	5	1		16,543	14,083	13	7		
37,567	47,833	5	0		85,769	1,59,370	0	6		
...	...				2	3,000	0	0		
6	*i*13	13	0		3,027	2,533	9	0		(*i*.) Six tools lost, but price recovered from the contractors.
...	...				4	5,022	0	0		
37,573	47,847	2	0		88,802	1,69,925	9	6		
6	2	1	6		4,679	7,820	7	3		
...	...				175	262	8	0		
3,694	*k*1,349	3	9		48,695	20,104	15	6		(*k*.) Includes cost of 226 pieces of rotten timber.
Mds. 3,720½	1,148	6	0		...	...				
3,700	2,499	11	3		53,549	28,187	14	9		

APPEN-
FORM
FOREST DEPARTMENT,
Abstract showing the value of Timber and of

	Description of timber and other stock.	On hand at commencement of the year.		Received during the year.		Total.	
		No.	Value.	No.	Value.	No.	Value.
			Rs. a. p.		Rs. a. p.		Rs. a. p.
DEHRA DÚN DIVS.—(*concld.*)	Elephants ...	6	12,000 0 0	*1	2,000 0 0	7	14,000 0 0
	Tools and plant, &c.	3,201	2,907 7 2	*l*707	941 11 7	3,908	3,849 2 9
	Buildings ...	...	...	1	774 0 6	1	774 0 6
		29,636	22,437 9 6	31,529	26,873 3 9	61,165	49,310 13 3
JAUNSÁR DIVISION.	Doodar sleepers, &c., Rai and chir pieces	37,575	39,297 10 11	88,440	1,83,071 1 6 *12,169 13 11	126,015	2,34,538 10 4
	Firewood ...	...	...	Mds. 155,522 seers. 32	43,421 1 6	Mds. 155,522 seers. 32	43,421 1 6
		37,575	39,297 10 11	88,440	2,38,662 0 11	126,015	2,77,959 11 10
	Elephants ...	...	...	*r*1	*r*2,000 0 0	1	2,000 0 0
	Tools and plant, &c....	811	2,892 2 0	268	*m*743 0 0	1,079	3,635 2 0
	Buildings ...	29	18,800 0 0	7	3,870 4 4	36	22,670 4 4
	Gunpowder, &c. ...	...	...	lbs3,633	1,816 8 0	lbs3,633	1,816 8 0
		38,415	60,989 12 11	88,716	2,47,091 13 3	127,131	3,08,081 10 2
BHÁGIRATHI DIVISION.	Doodar sleepers, &c.	1,244	3,768 4 0	23,512	81,703 13 7	24,756	85,472 1 7
	Firewood ...	Mds. 10,385¼	1,557 12 0	Mds. 8,890½	1,094 8 6	Mds. 19,275¾	2,652 4 6
		1,244	5,326 0 0	23,512	82,798 6 1	24,756	88,124 6 1
	Tools and plant, &c....	2,581	7,959 6 0	...	37 14 0	2,581	7,997 4 0
	Buildings ...	6	20,550 0 0	...	...	6	20,550 0 0
	Gunpowder, &c. ...	...	...	lbs650	1,012 0 0	lbs650	1,012 0 0
		3,831	33,835 6 0	23,512	83,848 4 1	27,343	1,17,683 10 1
GORAKHPUR DIVISION.	Sál logs ...	345	2,595 0 0	102	836 15 6	447	3,431 15 6
	Timber other kinds ..	11,329	12,520 5 0	23,909	10,812 10 10	35,238	23,332 15 10
	Firewood and charcoal.	...	...	Mds. sr. 516 8½	91 6 6	Mds. sr. 516 8½	91 6 6
		11,674	15,115 5 0	24,011	11,741 0 10	35,685	26,856 5 10
	Elephant ...	1	2,000 0 0	...	...	1	2,000 0 0
	Tools and plant, &c	208	861 0 0	93	174 8 0	301	1,035 8 0
	Buildings ...	1	1,000 0 0	1	327 11 8	2	1,327 11 8
		11,884	18,976 5 0	24,105	12,243 4 8	35,989	31,219 9 6

DIX XVIII.

No. 60.

NORTH-WESTERN PROVINCES.

Live and Dead Stock for the year 1876-77—*(continued.)*

Sold, otherwise disposed of and lost during the year and allowance for depreciation.		On hand at close of the year.		Cause of loss and other particulars.
No.	Value.	No.	Value.	
	Rs. a. p.		Rs. a. p.	
...	...	7	14,000 0 0	* Transferred from Kumaun Division.
1,620	†915 11 2	2,288	2,933 7 7	(*l.*) Includes Rs. 555-0-10 price of muskets, pouches, &c., not charged to any budget head.
...	...	1	774 0 6	† Allowance for depreciation.
5,320	3,415 6 5	55,845	45,895 6 10	
66,380	1,62,718 3 4	59,635	71,820 7 0	
Mds. 117,033 seers. 4	33,558 3 0	Mds. 38,489 seers. 28	9,862 14 6	
66,380	1,96,276 6 4	59,635	81,683 5 6	
...	...	1	2,000 0 0	(*r.*) Transferred from Kumaun Division.
9	*p*69 4 0	1,070	3,565 14 0	(*m.*) Includes cost of repair of tools, &c.
3	150 0 0	33	2 ,520 4 4	(*p.*) Allowance for depreciation of tools, &c.
lbs.3,633	1,816 8 0	...	...	
66,392	1,98,312 2 4	60,739	1,09,769 7 10	
22,577	*s*85,291 8 0	2,179	180 9 7	(*s.*) Includes Rs. 120-13-0 on account of loss and depreciation for waif and return of claimed waif wood.
11,931¼	*x*1,700 2 4	7,344¼	952 2 2	(*x.*) Includes Rs. 120-13-0 on account of loss on over-estimated value of firewood, &c.
22,577	86,991 10 4	2,179	1,132 11 9	
40	400 0 0 *1,978 4 0	2,541	5,624 0 0	* Depreciation for wear and tear of tools, &c.
...	†6,250 0 0	6	14,300 0 0	† Officer in charge has reduced his estimate of buildings by this amount.
lbs.15	27 4 0	lbs.635	984 12 0	
22,617	95,642 2 4	4,726	22,041 7 9	
397	2,934 3 6	50	497 12 0	
*15,939	*12,647 7 10	19,299	10,685 8 0	* Includes Rs. 21-1-6 price of timber lost in transit river.
Mds. sr. 516 8½	91 6 6	...	...	
16,336	15,673 1 10	19,349	11,183 4 0	
...	...	1	2,000 0 0	
...	...	301	1,035 8 0	
...	...	2	1,327 11 8	
16,336	15,673 1 10	19,653	15,546 7 8	

APPEN

FORM

FOREST DEPARTMENT,

Abstract showing the value of Timber and of

	Description of timber and other stock.	On hand at commencement of the year.		Received during the year.		Total.	
		No.	Value.	No.	Value.	No.	Value.
			Rs. a. p.		Rs. a. p.		Rs. a. p.
JHÁNSI DIVISION.	Timber and bamboos various kinds.	36,683	470 10 3	227,442	1,277 11 9	264,125	1,748 6 0
	Buildings ...	1	8 0 0	...	...	1	8 0 0
	Tools and plant ...	2	3 0 0	...	†1 13 0	2	4 13 0
		36,686	481 10 3	227,442	1,279 8 9	264,128	1,761 3 0
ROHILKHAND DN., (BIJNOR.)	Sál ballis ...	700	140 0 0	2,723	865 12 5	3,123	1,005 12 5
	Waif wood ...	...	...	1,641	901 10 0	1,641	901 10 0
		700	140 0 0	4,364	1,767 6 5	5,064	1,907 6 5
	Grand Total No. ...	273,239	478,278 12 2	472,764	465,082 13 0	472,764	943,361 9 2
	" Mds. ...	10,385¼	...	Mds. 186,811 seer. 10½	...	Mds. 197,196 se er 20½	...
	" lbs. ...	...	...	lbs.6,583	...	lbs,6,583	...

NOTE—Difference in value at commence-

DATED NAINI TAL
The 30th of July, 1877.

DIX XVIII.

No. 60.

NORTH-WESTERN PROVINCES.

Live and Dead Stock for the year 1876-77.—(concluded.)

Sold, otherwise disposed of and lost during the year and allowance for depreciation.		On hand at close of the year.		Cause of loss and other particulars.
No.	Value.	No.	Value.	
	Rs. a. p.		Rs. a. p.	
*184,883	*1,197 4 11	79,242	551 1 1	* Includes cost of rotten timber and bamboos.
...	...	1	8 0 0	
...	...	2	4 13 0	† Cost of repair of a scale.
184,883	1,197 4 11	79,245	563 14 1	
3,368	990 12 5	55	15 0 0	
669	401 10 0	972	500 0 0	
4,037	1,392 6 5	1,027	515 0 0	
3,87,777 Mds.	4,66,846 4 0	358,226 Mds.	476,515 5 2	
151,362 seer.	...	45,834 seer.	...	
12½		8		
lbs.5,348	...	lbs. 1,235	...	

ment and close of the year Rs 1,763-7-0.

G. GREIG,

Conservator of Forests, N.-W. P.

APPENDIX XIX.

Forest Department, North-Western Provinces.

List of Rest-houses in forests, plantations, and at depôts, which have cost more than Rs. 200 each, and for the occupation of which no rent is paid during the year 1876-77.

Serial number of Buildings.	Division.	Divisional No.	Name of Building.	Cost.	Remarks.
1	Kumaun ...	1	Rámnagar	Above two hundred ...	Rest-house at the timber depôt.
2		2	Chorgalia	Ditto ...	Ditto in the forest.
3		3	Mohán	Ditto ...	Ditto ditto.
4	Ránikhet Sub-division ...	1	Ránikhet	Ditto ...	House for the sub-divisional officer at head-quarters.
5		2	Dalmoti	Ditto ...	Rest-house in the forest, converted from a native house.
6		3	Jakhleo	Ditto ...	Ditto ditto.
7	Garhwál ...	1	Baxar	Ditto ...	Ditto in the forest.
8	Dehra Dún ...	1	Kansráo	Ditto ...	Ditto ditto.
9	Jaunsár ...	1	Karbir	Ditto ...	Ditto at the Chakráta Depôt.
10		2	Deoban	Ditto ...	Ditto in the forest.
11		3	Bodyár	Ditto ...	Ditto ditto.
12		4	Lokhár	Ditto ...	Ditto ditto.
13		5	Katiyán	Ditto ...	Ditto ditto.
14		6	Maindrot	Ditto ...	Ditto ditto.
15		7	Katkat	Ditto ...	Ditto ditto.
16	Bhágirathi ...	1	Darású	Ditto ...	Ditto ditto.
17		2	Barahat	Ditto ...	Ditto ditto.
18		3	Batwari	Ditto ...	Ditto ditto.
19		4	Jhálá	Ditto ...	Ditto ditto.
20		5	Jángla	Ditto ...	Ditto ditto.
21	Gorakhpur ...	1	Chauk Sonári	Ditto ...	Ditto ditto.
22		2	Rámgarh	Ditto ...	Ditto ditto.
23		3	Nagwa	Ditto ...	Ditto ditto.

Office of Conservator of Forests, N.-W. P.
Dated Naini Tal, the 30th July, 1877.

G. GREIG,
Conservator of Forests, N.-W. P.

No. 220F., dated Calcutta, the 20th February 1878.

From—The Officiating Secretary to the Government of India,

To—The Secy. to the Govt. of the North-Western Provinces and Oudh,
Public Works Dept., Forest Branch.

I AM directed to acknowledge the receipt of your endorsement No. 395F., dated the 7th December last, forwarding the Annual Report of the Forest Department in Oudh for 1876-77, and to communicate the following observations and orders of the Government of India.

2. The area of the Government forests in Oudh has not been increased, but remains at 824 square miles. The improvement which has been effected in the boundary lines of these forests by making ditches and erecting stout sâl posts, is satisfactory; but it appears from paragraph 19 of the report, that masonry pillars are being erected in some places under the superintendence of the Settlement Department. If, as would appear to be the case, in the Conservator's opinion, stout sâl posts are better than masonry pillars, it is not understood why this description of boundary mark should not be adopted in all the reserved forests of Oudh.

3. The area of forests protected from fire has been increased from 20,480 acres on the 31st March 1876, to 30,027 acres on the 30th June 1877. The Governor General in Council is glad to notice that steps have been taken to protect a small block in the forests of the Bhira subdivision, the value of which, owing to their proximity to the open country, must be considerable. The mention made by Captain Wood, in paragraph 56 of his report, of the existence of large timber in those forests, shews that the efforts now made for their improvement will not be fruitless.

4. It is gratifying to observe, from paragraph 21 of the report, that the young growth in the compartments where improvement-fellings have been made is progressing favourably; but more detailed information on this important subject is necessary, and I am to request that in future annual reports it may be stated whether the ground is completely stocked with the young growth, and whether it consists chiefly of sâl, or sâl mixed with other descriptions of trees.

5. A good deal seems to have been done in building rest-houses, constructing wells, and extending the system of roads, which is the most satisfactory feature in the administration of the forests in Oudh. It is gathered from the Conservator's report that over 400 miles of roads and lines exist, more than three-fourths of which are good drivable roads. The revenue from dry timber removed by purchasers in Oudh has always been considerable, and amounted in 1876-77 to Rs. 1,60,000, or nearly one-half of the total gross revenue derived from the forests. Captain Wood justly attributes the growth of the revenue from this source to good lines of communication, and it is hoped he will persevere in his efforts to render these lines as perfect as possible.

6. The results of the annual selection-fellings are said to have been—

Sâl, arseyna, and haldu in 16 years (1861 to 1876)		...	37,211 trees.
In 1876-77	Sâl	5,267	
	Arseyna	453	5,720 trees.

The Conservator explains that the working plan allows the felling of 2,900 trees per annum, or 46,400 trees in 16 years. It is probable that he refers to the plan of operations for 1868-69 and 1869-70, drawn up jointly by himself and the Inspector General of Forests in October 1868, the papers of which are printed as an appendix to the Oudh Forest Report for 1867-68. That plan of operations was sanctioned by the Chief Commissioner of Oudh only for the two years in question, and I am directed to enquire whether any working plan was subsequently sanctioned by the Chief Commissioner for a longer period.

7. The Governor General in Council has noticed with satisfaction that the Bahramghat depôt has worked well, and that periodical auction sales have been successful.

8. The financial results of the year have been—

				Rs.
Receipts	... ...	...	... ...	3,35,450
Charges	A, Conservancy and Works	Rs.	1,42,247	
	B, Establishments ...	„	63,073	
				2,05,320
	Surplus	...	... ...	1,30,130

and the transactions classified under the three great heads of service have been as follows :—

	Receipts.	Rs.	Charges.	Rs.
I.—Departmental timber operations...	I, 1 and 3 ...	1,37,102	I, 1 and 3; ½ VIII, IX and B ...	1,35,796
II.—Other revenue	I, 2; II and IV	1,98,348	I, 2; II, X; ½ VIII, IX and B ..	30,980
III.—Formation, protection, and improvement of forests ...	.....	...	III; IV; VII; ½ VIII, IX, and B...	38,544
Total ...	.....	3,35,450	.....	2,05,320

This allotment of establishment and general charges is not supposed to be accurate, but it is suggested to shew what is intended. The distribution of the charges requires to be worked out in detail, and the Conservator should be requested to consider the subject carefully, and enter a similar statement in each annual report, allotting the general and establishment charges to each of the three heads in accordance with existing circumstances.

9. In several passages of the report the Conservator adverts to the insufficiency of the staff of superior Officers at his disposal, and to the difficulty he experiences in doing justice to the works of improvement which the Government of India expect should be carried out. I am directed to state that the annual report is scarcely the place for such remarks. The superior staff of Forest Officers in Oudh was sanctioned in accordance with the proposals contained in the letter from the Personal Assistant to the Chief Commissioner of Oudh, No. 2011, dated the 12th June 1875. Subsequently additions have been made, and if a further increase is considered necessary, I am to invite you to submit the needful proposals, which will be duly considered by the Government of India.

No. 394F.

GOVT., N.-W. P. AND OUDH.

PUBLIC WORKS DEPARTMENT.

FOREST.

DATED ALLAHABAD, THE 7TH DECEMBER, 1877.

ANNUAL FOREST REPORT, OUDH, FOR 1876-77.

READ—.

Letter No. 60 of 1877 from the Conservator of Forests, Oudh, forwarding Forest Budget for 1876-77.

READ also—

Annual Forest Report, Oudh, for 1875-76.

RESOLUTION.—The financial results of the year are thus shown by the Conservator :—

			Rs.	Rs.
RECEIPTS				3,35,450
EXPENDITURE	Works		1,20,529	2,05,320
	Conservancy		21,718	
	Establishment		63,073	
		Surplus		1,30,130
To which is added, after taking into consideration difference in value of stock, contractor's outstandings and liabilities, and outstandings and liabilities for timber sale, assets to the amount of				46,066
The net results of the year, as shown in Appendix A. to this Resolution, making a total of				1,76,196

2. The Conservator notes that in arriving at these amounts he has cleared his assets of Rs. 27,912, of which Rs. 22,701 are for old bad debts due from cartmen, and the balance for work done in former years.

RESERVED FORESTS.

Areas and Boundaries.

3. The area of Reserved Forest remains the same. It is observed that the daghbél boundaries are being gradually replaced by ditches. The Conservator should turn his attention to those points where, as he observes, the boundary daghbéls are being obliterated.

Protection and Improvement.

4. Fire conservancy, so far as it is carried out, has proved effectual, only one square mile out of 48 protected having been burnt. The year under notice was a specially favourable one for the Forests, as the rains in February and March saved the Forests during those months from fires.

5. The questions of carrying out improvements, fellings, and of the culture of Sissu form the subjects of separate reports.

6. The progress made in the construction of roads and sinking of wells has been on the whole satisfactory. The Conservator will be called upon to submit a scheme for the clearing of rivers and general improvement of water communication.

Yield and Working.

7. There have been 5,720 trees felled during the year. This amount is in excess of the amount allowed in the working plan: the Conservator, however, shows that the average fellings since 1861 amount to 2,326 trees per annum against 2,900 allowed, so that the forests are being worked well within their yielding powers. The views expressed by the Conservator in his para. 33, regarding the employment of petty contractors under careful supervision, meet with His Honour's approval.

Financial Results.

8. The financial results of the year are generally satisfactory.

GENERAL.

9. It is observed that the Conservator has entered into a contract to supply 1,50,000 cubic feet of timber to the Patna Agency. He should use every endeavour to complete the contract within the time allowed.

10. The necessity for strengthening the staff of the Oudh Forest Department has already been brought to the notice of the Government of India.

11. The favourable way in which the Conservator speaks of the officers of his Department is noticed by His Honour the Lieutenant-Governor with satisfaction.

12. The explanation given by the Conservator that the submission of his report at so late a date is due to the introduction of a new system of accounts, and to extra work thrown on to his office in consequence, is noted.

No. 395F.

ORDERED that the above, with copy of the Oudh Forest Report, be forwarded to the Secretary to the Government of India, Department of Revenue, Agriculture, and Commerce, for information.

No. 396F.

ORDERED also that a copy be forwarded to the Conservator of Forests, Oudh, for information.

ALEX. FRASER, COL., R.E.,
Secretary.

CAPT., R.E.,
Under-Secretary.

APPENDIX A.

Annual Account of Forest Revenue for 1876-77.

Receipts.				Rs.	a.	p.
Amount of revenue realized in 1876-77				3,35,450	3	1
DEDUCT—						
Amount realized on account of previous periods ...				9,893	14	0
Balance ...				3,25,556	5	1
ADD—		Rs.	a.	p.		
Outstandings on account of the year.	Timber sales ...	25,827	8	0*		
	Contractors ...	13,476	7	6		
		39,303	15	6		
Minus for bad debts					39,303	15	6
Value of the year's transactions					3,64,860	4	7

Disbursements.				Rs.	a.	p.
Amount disbursed in 1876-77				2,05,319	12	5
DEDUCT—						
Amount disbursed on account of transactions of former periods.						
Balance ...				2,05,319	12	5
ADD—		Rs.	a.	p.		
Amount due for transactions during the year under review, but not yet disbursed.	Timber sales ...	1,128	15	3		
	Contractors ...	478	9	2		
					1,607	8	5
Real cost of the year's transactions ...					2,06,927	4	10

	Rs.	a.	p.
Value of the year's transactions	3,64,860	4	7
Cost of the year's transactions	2,06,927	4	10
Balance ...	1,57,932	15	9
Add difference between the value of stock at the commencement and close of the year ...	57,759	14	2
Net results of the year ...	2,15,692	13	11

* The outstandings on account of minor forest revenue have not been added in this account, having never before been taken into account. The outstandings during 1876-77 were at commencement of the year ... ... Rs. 55,560 15 11 } See prescribed Form No. 52.
and at close of the year ... ... " 95,136 10 3 }

E. WOOD, CAPT.,
Conservator of Forests, Oudh.

OUDH PROVINCE.

ANNUAL PROGRESS REPORT

OF

FOREST ADMINISTRATION

FOR THE YEAR 1876-77.

By Captain E. Wood, Conservator of Forests, Oudh.

Table of Contents.—I.—Summary of administration during the year.

II.—Reserved forests.

1. Area and boundaries.
2. Protection and improvement.
3. Yield and working.
4. Financial results.

III.—Unreserved or district forests. (Blank.)

IV.—General remarks.

I.—SUMMARY OF ADMINISTRATION DURING THE YEAR.

1. Near the end of the year Oudh was amalgamated with the North-Western Provinces, the Chief Commissioner of Oudh being the Lieutenant-Governor of the North-Western Provinces, and though most of the other Departments have been amalgamated, the Forest Departments in Oudh and the North-Western Provinces remain under separate Conservators, as the charges were considered too large to be worked by one officer under the present system. In my letter No. 44 of 31st August, 1877, I suggested the way the forests of the amalgamated Provinces might be worked by one officer should it eventually be considered advisable.

2. No orders have as yet been received on the special commission reported on in para. 2 of my last year's annual progress report: I trust that they may soon be issued as the arrears on account of grazing are becoming very heavy, the minds of the people unsettled and the Taluqdars may be having hopes which may not be fulfilled.

3. During the year, owing to financial pressure, Mr. Inglis, the Officiating Chief Commissioner, reduced the amount to be spent on improvements, which measure the Government of India did not approve of: the season, however, was so far advanced when I obtained a fresh grant, though I made an application as soon as I saw that we should obtain our full revenue, that I could not take full advantage of it as the labourers who come from the hills had left when they found there was no work to do.

4. I have in my letter No. 59 of 29th September, 1877, (report No. 1) reported on improvement fellings. I consider they have not had fair justice done to them, that on the whole they have been no expense to Government whereas they have done much good to the forests in which they have taken place.

5. With reference to the remarks of the Government of India in para. 6 of No. 227 of 13th February, 1877, being orders on forest report for 1875-76, I have shown in my No. 133 of 25th March, 1877, (report No. 3,) that the financial results of the timber operations were not so unsatisfactory as supposed by the Government of India, as the *corrected* value of stock at the end of the period under review and the *uncorrected* value of stock at the beginning had been taken. His Honour the Lieutenant-Governor and Chief Commissioner was pleased to order that I might refer to this matter in this report.

6. His Honour has on my representations in No. 2 of 9th April, 1877, (report No. 4,) agreed that it is not expedient to curtail the selection fellings at present.

7. In letter No. 55 of 25th September, 1877, (report No. 2,) I have fully reported on Sissu plantations, there are many difficulties that a person unacquainted with the Oudh Forests cannot understand. Sissu plantations can be made, but efficient supervision is one thing necessary and without it it would be waste of money to attempt them.

8. The system of roads and wells is being carried out, but owing to the retrenchments alluded to in para. 3 not so much was done as proposed, the progress made up to date will be found in its proper place. The improvement of our water communications is much needed.

9. The Depôt at Bahramghat has done well, timber has been sold in large quantities and periodical auction sales have for the first time been successful in clearing out scantlings and logs not good enough for the public departments, these do very well for second class buildings and for the requirements of the native population. We *might* possibly have made more money by selling timber in the log, but as the certainty of obtaining a market is a great disideratum, and His Honour "thinks that in reviewing the timber operations of the Forest Department, the benefits accruing to other departments and the public in general should be taken into consideration, as well as the mere money surplus shown by that department," I trust that the results will be considered satisfactory, particularly as I consider it a step in obtaining a future market for the produce of our improvement fellings.

10. The saw machinery has about paid its expenses during the year, I have fully reported on this in my No. 41 of 4th August, 1877.

11. Mr. Hillier was appointed from the Punjab in October, and took over charge of the Bahramghat Division as an independent Division, before this it was part of the Kheri Division.

12. Mr. Wilmot was transferred from the Kheri Division (temporary charge of the Bahramghat Depôt) under Mr. Dodsworth, to the independent charge of the Bhira sub-division, but on Mr. Ponsonby's departure on two years' furlough he was transferred to the charge of the Bahraich and Gonda Divisions, the Bhira sub-division again being under charge of Mr. Dodsworth who is in charge of the Newalkhar and Khairigarh sub-divisions, where the most important forest operations are taking place.

13. Separate offices have been kept up as below in the hope of an efficient staff being eventually sanctioned, though it has given extra work :—

1 Office Direction.
1 „ Newalkhar Khairigarh.
1 „ Bhira.
1 „ Bahraich.
1 „ Gonda.
1 „ Bahramghat.

14. The Government of India is most desirous that the forests may be improved, but the progress cannot be so great as could be desired as long as the department is so under officered as it is at present. I have fully reported on this in my letters No. 44 and No. 56 of 31st August, and 25th September, 1877, respectively.

15. Oudh has all along suffered from a paucity of officers, it contains some of the finest forests in British India and with proper supervision, it will have some of the most valuable, for it must be remembered that Oudh not only supplies itself but parts of the North-Western Provinces, the Punjab, Bengal and Rajputana ; so that the maintenance and improvement of the Oudh forests and the largest supply of timber and forest products compatible with their well being is not merely a provincial question, but one of the greatest importance to the well being of several other provinces.

II.—RESERVED FORESTS.

16. The orders in the Forest Code (paragraph 189) are that the report should be arranged for each division or forest range under the following heads:—

1. Area and boundaries	3. Yield and working.
2. Protection and improvement.	4. Financial results.

I shall report on the three Divisions as the accounts have been kept this year under the heads of Kheri, Bahraich and Gonda. The accounts for the future will be kept distinct for Bhira and Bahramghat, and it would tend greatly to the proper working of the Department if each sub-division was in charge of one officer and its accounts kept separate. As the working of the Department, as a whole, will not be shown by the Divisional reports, I shall at the end give an abstract of financial results, &c.

1. Area and Boundaries.

17. **Kheri Division.**—The area of the Division remains the same; we are endeavouring with the aid of the Deputy Commissioner to obtain the Babuapur grant in the Bhira sub-division from Mr. Foy, this grant divides the forests and will, if obtained, consolidate our forests and Mr. Foy's property.

18. The boundary daghbel of the Mohan forests in the Khairigarh sub-division has been replaced by a three feet ditch from the village of Karia to the eastern limit on the Korially river, except a small portion of the village lands of Kharhattia where the boundary is not properly defined. The forest boundary adjoining portions of the village lands of Pachpera and Sitlapur also remain unditched owing to the dispute with the Taluqdar of Khairigarh not having been decided, it is hoped that this will be decided by the district officer during the coming cold season. The ditching executed is 25½ miles at a cost of Rs. 657-11-9 or about Rs. 25-12-0 per mile. The boundary daghbels in other parts are being obliterated by wind and weather, and will be gradually replaced by a three feet ditch, meanwhile the fixed points are being marked with stout Sál posts.

19. In the Bhira sub-division the boundary daghbel is in good order, and in some places masonry pillars are being erected under the superintendence of the Settlement Department, but owing to this being done by natives and not under proper supervision inferior work is being done, and this will not stand the butting of the cattle who like to sharpen their horns on them and I consider good stout Sál posts would be much superior.

2. Protection and Improvement.

20. *Fire Conservancy.*—The Dudua Home block was increased from 20 to 30 square miles. Three small fires started in the closed block but did very little damage, being promptly extinguished. In the Bhira sub-division a small block of 4½ square miles was taken in hand, but about ¼ was burnt, there was no officer in immediate charge when this took place. The season was for a long time favourable owing to the heavy rain in February and March, but about the middle of May a good many parts of the forests not specially protected were burnt.

21. *Improvement fellings.*—No regular improvement fellings took place, the department being so under handed that no officer could be spared for the work, and besides the usual fellings owing to no officer being allowed for the Patna agency fellings, Mr. Dodsworth had nearly double work on this account alone. The compartments, in which the improvement fellings took place near Dudua are looking remarkably well, the young trees now allowed light and air are filling up well and looking remarkably healthy, and the growth of the young stuff in the long grass has been astonishing. In Bhira some experimental cuttings were made within the block closed for fire conservancy to ascertain the best manner of treating the forests, a short but detailed report by Mr. Wilmot is annexed and marked A. (Appendix.)

22. *Creepers.*—In the Newalkhar sub-division about 16 miles of Sál forest at the edge of the high banks, east and west of Dudua, were cleared of creepers. In Bhira there are not many creepers.

23. *Bamboos*.—In the Newalkhar sub-division the bamboos though few are coming on very well, and in our plantations for Sissu we might plant the places suitable for bamboos (the Bojhis or isolated forest of unreserved trees which now afford nothing of value), with bamboo seed and afterwards remove the useless trees.

24. *Sissu*.—The experimental broad-cast Sissu sowings on the high ground in the interior of the Sál forests have done well and are making their way in the grass, and it is hoped will have topped it by this cold weather. The ridge sowings are still very puny. The natural reproduction of the Sissu in the low grounds (protected block) on the banks of the Soheli is getting on, and I am delighted to see the Sissu coming up in other spots than the damp ones along the bed of the river, this I fancy is attributable (of course allowing for the exclusion of fires) to the rich vegetable mould which is now forming; and Mr. Dodsworth reports that Toon seedlings are coming up well in this block. Altogether I consider that the reproduction taking place in the lower Dudua closed block is very encouraging, it has now been closed some 6 years.

25. *Roads*.—Owing to want of funds only 3 new roads were made in the Newalkhar and Khairigarh sub-divisions or 12½ miles, *viz.*, Bhadraola to Bandhi $2\frac{8}{16}$ miles, Chota Palia to Salukapur, $3\frac{3}{16}$ miles, Salukapur to Barhatta, forming the new sub-division line, $6\frac{4}{16}$ miles, but in these 2 sub-divisions there are now 198 miles of lines and roads of which 163 are good drivable roads. These roads were cleared and repaired and kept in good order. In Bhira the Bhira-Mailáni road, 20 feet wide, was made for 6 miles 47 chains through the forest, and the road marked out on the village lands, and arrangements are being made with the district officer to take up the land. This road when continued a few miles to Khotar will give through traffic with Sháhjahánpur.

26. *Wells*.—In the Newalkhar sub-division two new wells were, completed, and two nearly finished, and the Shitaba compound well was completed in the Khairigarh sub-division. We have now 24 wells in these two sub-divisions the former is pretty well supplied, more are required in the latter, some of the 24 are wooden wells, which when opportunity occurs will be replaced by good masonry ones. In the Bhira sub-division there is hardly a well with good water in it, they will have to be made as our system of roads progresses.

27. *Bridges*.—The usual temporary bridge on the Soheli at Dudua was erected and kept up, the traffic on the Dudua Pallia road is very great and all the small bridges on the road to Pallia were kept in good order. Many temporary bridges on the different roads were kept up. Mr. Dodsworth has nearly completed a pile bridge on the Jowraha on the Fort and Karia road, which if successful, as we hope it will be, will help communication greatly, there being no crossing owing to the depth of water and quicksands for several miles (except one ford where elephants can cross in the cold season and then they usually wet the gaddis or pack saddles). Where the bridge crosses the breadth is about 100 feet and the depth 10 feet the roadway which is of thick planks is about 5 feet above low water level, and it is expected that in very wet weather the flood level will be some 10 feet above the roadway, but as there is little current where the nala is so deep and broad, we hope it will not affect the stability of the bridge, in the cold weather the stream some miles below is only some 20 feet broad and hardly knee deep. A span of 20 feet has been allowed in case of rafting being eventually conducted on this stream and the bridge is intended for elephants and the heaviest logs.

28. *Rivers*.—The Soheli, some 75 miles, has been cleared of snags as usual. The Jowraha alluded to in last paragraph consists of large deep pools in the forest, and would be of very great importance in rafting, when timber operations are carried on regularly in the Khairigarh sub-division. We shall want to clear the river where it leaves the forest to its junction with the Soheli as it is now choked up with trees, this

is a work of very great importance but can only be carried out when an officer can look after the works of the Khairigarh sub-division. I came down the river Korially from Shitabaghat, the junction of the Soheli and Korially, to Bahramghat. The river is pretty free from snags, our rafts of logs take sometimes months going the distance some 100 miles owing to the shallows, if the deep channel were only staked out at the end of the cold weather and we had some one to remove small obstructions and to look after the boatmen, I believe we might make our rafting much more certain and save much expense, the boatmen I fancy have an idea that if they get down too quickly, their occupation would be gone, whereas if they were quicker we could send down much more produce. With a view to see if we could irrigate the Sissu lands on the high ground near Dudua I got Mr. Dodsworth to run a line of levels from the Soheli to Dudua and along the Masan Kham main line crossing the Jowraha near its head to the Mohan. I find that irrigation could not be conducted profitably. Taking the bench mark at the junction of the roads at Dudua chauki as 100 above zero, the surface of the Soheli (some 1·94 feet deep) was +55·77, of the Jowraha +73 46, of the Mohan +83 28, the level of the high Sissu land about +94. The distance being from the Soheli to bench mark half a mile, from bench mark to a point *x* on the Sissu ground 1½ miles, from *x* to the Jowraha 3½ miles, and from the Jowraha to the Mohan 2 miles. The Mohan is unfortunately the boundary between Oudh and Nipal or we could make a cut from the Mohan which is shallow and sandy, into the Jowraha which has deep banks and which we could manage and navigate all the year round, and use the river for nearly its whole length instead of only the lower portion in the Kairigarh sub-division.

29 *Rest houses.*—The Shitaba rest house was completed during the year, we have now 4 first class rest houses, *viz.*, Sathiana, Dudua, Fort near Khairigarh, and Shitaba, but no second class ones. Arrangements are being made for a first class rest house at Gola for the Bhira sub-division so as to let an officer be on the spot for arranging works and contracts before and after it is safe to be in tents in the forests.

3. Yield and Working.

30. The usual selection fellings took place in "Oudh forest tract No. 2 (Revenue Survey Map) west of the Main Masan Kham line and besides this some 2,247 trees, mostly ones that had been formerly tapped for resin were felled near Karia, being near the Korially, for the Patna contract. We have now felled since 1861, or in 16 felling seasons, 37,211 trees, Sál, Arseyna and Haldu, giving an average of 2,326 trees per annum; the working plan allowing 2,900 trees per annum, or 46,400 for the 16 years, so that we are some 9,189 to the good.

31. The timber removed by purchasers amounted to Rs. 50,218-11-6, so that taking an average of 4 annas per cubic foot royalty, and logs, 40 cubic feet each or Rs. 10 per log, 5,022 logs, wind falls and dead trees, were taken out of the forests, some of the money is for Kusamb, but I think as many of the trees are cut short, only good parts taken, and many second and third class included, a good many more than 5,000 trees* were taken, which seems to point out that we are not felling to any thing like our annual yield.

* Mostly Sál.

32. Good progress has been made in carting, and owing to the excellent arrangements of Mr. Dodsworth of all the money advanced some thing less than Rs. 15 remains to be realized and that amount is covered by property in our hands.

33. We have found that we must do our work with petty contractors, and it is much more profitable for Government to have an efficient staff to look after the petty contractors, as well as other things, than to give large contracts as no man of substance will come into the forests unless the profits were enormous. We have got our felling and carting into first rate order, we want now efficient supervision for

rafting. The unseasonable weather has caused great difficulties in our rafting and the formation of a sand bank at the junction of the Soheli and Kornally greatly impeded work.

34. 32,421 maunds of fuel and 903½ maunds of charcoal were forwarded from the forests to Bahramghat.

4.—Financial Results.

				Rs.
35. The receipts were	...	...	...	2,08,995
and Expenditure A.	...	...	...	1,33,283
B.	...	...	...	26,379
		Total	...	1,59,662
giving a surplus of	...	...	...	49,333

the value of assets that can be brought to book is ... Rs. 48,025

more than at the commencement of the year. The gain has been obtained by selling scantlings at Bahramghat at Rs. 2-4-0 per cubic foot and the benefit to Government in other departments should be taken into consideration. At first sight it would appear that we obtained more from the timber removed by purchasers than by Departmental agency, but if we take merely the receipts Rs. 1,15,924 less the expenditure Rs. 88,187, *viz.*, Rs. 27,737 and about 2,773 logs used, we still get Rs. 10 per log profit; we cannot bring in the increased value of stock as there are many items which would destroy the calculation.

1. Area and Boundaries.

36. **Bahraich Division**.—The area remains the same. The boundary daghbel is not in a satisfactory state, and will be replaced, as in Kheri, with a three feet ditch gradually when the disputed boundary has been fixed by the district officer, it was hoped that the boundary disputed by the Nánpára Raja would have been settled by the district authorities last cold weather, but it could not be done, it is expected that it will be done this coming cold season. The boundary with Nípal in the 8th section is laid down, but the map has not yet been published by the Survey Department.

2. Protection and Improvement.

37. *Fire Conservancy.*—The regular blocks under special fire conservancy were protected from fire, *viz.*, the Charda forest and block No. 3 in Bhinga which was enlarged; besides this Section VI. and part of VII. were protected. These are easily protected owing to the absence of long coarse grass, arrangements are being made to start fire conservancy on a regular system in the Sál forests of Sections II. and III. by making roads and wells, without which it could not be attended with success, the Sál forests in these sections are most valuable owing to the proximity of water carriage, but at present they are difficult to manage owing to the absence of good water on which account they are unhealthy, the work people, carters and others having to drink the water of nalas outside the forests.

38. *Growth.*—The young Sál poles are coming on well in Sections II., III., IV., and V., reproduction is required in Sections VI., VII., and VIII., the small experimental closures are doing well.

39. *Roads.*—There were only 11 miles of new roads made this year of which the Nishangara-Katiana road which is much used, nine miles long was completed. There are now 203⅝ miles of roads in this Division. 192 miles 5 furlongs of old roads were cleared and repaired.

40. *Wells.*—Three new wells were taken in hand on the high ground in the second and third sections, they will be ready before fire conservancy commences next cold weather. An old well on the Nishangara-Kataina road was cleaned out and repaired, this well was found at the edge of the Sál forest and is evidently of great antiquity, it is some 9′ in diameter and near it is another old well of larger diameter. In this Division we have now eight wells completed and three in progress.

41. *Bridges.*—There are no large bridges in this Division, but numbers of small ones have been kept up on the various roads.

42. *Rest-houses.*—A new first class rest-house is being arranged for, there are five second class rest-houses besides thatched huts.

3. Yield and Working.

43. There are no Departmental fellings in this Division. The Fatehgarh Gun Carriage Agency made extensive fellings in the scattered Sissu forests in the 1st and 2nd sections taking altogether some 1,91,569 cubic feet of green Sissu and 79,119 cubic foot of dry. This includes branches and much worthless stuff. Most of this would have been burnt had it not been removed. Taking green timber at about 4 annas a cubic feet some 30,000 cubic feet were removed by purchasers from green Sál in a small outlying block that cannot be protected, Kusamb jats and green unreserved wood, and taking the same rate for dry Sál over 50,000 cubic feet were removed, but it is hoped that when more roads and wells are made and the forests opened out that the yield taken out will greatly increase. It must be remembered in comparing these figures with those of Kheri that there is no mature Sál timber in this Division except in Section VI. and VII. These forests have had fully 16 year's rest and much wants to be done for their improvement, they are so straggling that one officer cannot superintend works carried out in both sub-divisions. Some 31,047 maunds of fuel were carted from the forests and sent to Bahramghat under management of the Kheri Forest officer. It is from the Motipur sub-division that I hope to supply fuel to Bahramghat, as it is on the large river and nearly 100 miles nearer Bahramghat than Dudua is, but this cannot be taken in hand successfully unless there is an officer in sole charge of the sub-division.

4. Financial Results.

44. The receipts were		Rs.	1,15,995
and expenditure A. Rs. 7,968.			
B. „ 12,268.			
Total ... Rs. 20,236.			20,236
Giving a surplus of		Rs.	95,759

The expenditure was very small indeed partly owing to the reduction in Budget allotments, and partly because in so straggling a division it is so difficult to properly supervise works as one officer has not only to see after the whole of this division but has the Gonda Division to look after as well.

1. Area and Boundaries.

45. **Gonda Division.**—The area remains the same, the same remarks regarding the boundary with Nipal in the 8th Section of the Bahraich Division is applicable to this.

2. Protection and Improvement.

46. *Fire Conservancy.*—No regular portion was taken up specially, but most of the Division was protected from fire, *viz.*, 86,720 acres, this is owing to the favourable season, heavy rain having fallen in March and April. The 4th Section or the most easterly is now getting up a fine growth of young Sál, but it is so remote from the

Bahraich Division that till an officer can be put in charge I would not recommend a special area being taken up. For the same reason work not being able to be properly supervised, there were no works of importance carried on.

47. *Rest-houses and Wells.*—There is only one rest house and one well in the main Division, most of it is like the Bhabar of the North-Western Provinces, the water in the nalas disappearing at the foot of the hills.

3. Yield and Working.

48. About 10,000 rupees worth of timber was taken out by purchasers. There is a great deal of mature dhao that might be utilized, and if there was an officer in charge, I believe that the revenue might be greatly increased. No grazing dues have been collected, the question still being under reference.

4. Financial Results.

49. The receipts were...	...	...	... Rs. 10,460
and expenditure A.	... Rs. 997		
B.	... „ 2,111		
Total	... Rs. 3,108		Rs. 3,108
Giving a surplus of	...	...	... Rs. 7,352

The forests are having rest, this is all that can be said.

General. 1. Area and Boundaries.

50. The area of the Oudh Forests remains the same. The dagbhel boundary is being gradually replaced by a 3 feet ditch.

General. 2. Protection and Improvement.

51. Strict fire conservancy is carried on in 34½ square miles in Kheri and 13½ miles in Bahraich, giving a total of 48 square miles. We have over 400 miles of roads and lines, more than three quarters of which are good drivable roads. We have about 53 wells completed and 5 in progress, the forest revenue from dry timber is greatly attributable to the roads. To show the utility of wells I will quote from Mr. Dodsworth's report. "To show what influence good wells have over the health of the people, I will here state an occurrence which took place in my own camp this very season. I was on the move during the greater portion of the month of May, and as long as the servants got water at short intervals along the march they bore the heat and fatigue well. But one day I happened to make a long march and owing to the forest roads not being continued through village lands the camp had to follow the cart track on which they got no water for about 9 or 10 miles, then they came upon the Neora nala and every man drank his full of the luke warm water, the consequence was the same evening about 10 men were laid up with a severe fever and nearly all the others suffered from the effects of this march." We make our wells of good pucka masonry and plaster them inside and outside to prevent soakage and to get true spring water. We are gradually getting up a chain of rest houses so that officers can have shelter in the coldest and hottest months. Much might be done in improving our waterways which would save money and bring in increased revenue. Very little damage is done by villagers in destroying the trees by cutting, jungle fires are our only serious enemy.

General. 3. Yield and Working.

52. Only two sub-divisions out of 6 are being worked and these on a system which is well within the limit of safety, so that the capital value of the forests is yearly accumulating, but still I consider that much produce is lost by not having sufficient controlling establishment and from the want of more roads and wells.

GENERAL. 4. FINANCIAL RESULTS.

	Rs.	Rs.
53. *For the year.*—The receipts were		3,35,450
Expenditure for works	1,20,529	
Ditto for conservancy	21,718	
Total Rs. ...	1,42,247	1,42,247

	1875-76.	1876-77.
	Rs. a p.	Rs. a. p
Stock ...	2,12,125 14 10	2,69,985 13 0
Contractors outstandings.	50,296 2 1	13,476 7 6
	2,62,424 0 11	2,83,362 4 6
Contractors liabilities.	2,153 4 10	476 9 2
	2,60,270 12 1	2,82,883 11 4
Timber sales, outstandings.	9,919 1 2	25,852 11 2
	2,70,189 13 3	3,08,736 6 6
Timber sales, liabilities.	8,647 13 4	1,128 15 3
Total assets.	2,61,541 15 11	3,07,607 7 3
		2,61,541 15 11
		46,065 7 4

Leaving over	1,93,203
Or after payment of B. establishment	63,073
A cash surplus of	1,30,130
Besides this our assets were ...	46,066
more than last year, making	1,76,196
to the good after clearing from our assets	27,912
of which	22,701

were for bad debts due from cartmen of former years, and the rest for work done in former years.

FINANCIAL RESULTS FROM OCTOBER, 1861, TO 1876-77.

54. *Up to date.*

The financial results to the end of the year are as under :—

Year.	Conservancy	Working.	Total conservancy and working.	Establishment.	Grand total.	Revenue.
	Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.	Rs. a. p.
To end of 1875-76	2,47,097 8 10	8,18,366 5 0	10,65,463 13 10	4,93,653 1 1	15,59,116 14 11	21,68,711 15 8
For 1876-77	21,717 15 1	1,20,529 6 0	1,42,247 5 1	63,072 7 4	2,05,319 12 5	3,35,450 8 1
Total ...	2,68,815 7 11	9,38,895 11 0	12,07,711 2 11	5,56,725 8 5	17,64,436 11 4	25,04,162 2 9

Deduct, expenditure	Rs. ...	17,64,436 11 4
Gives a surplus	„ ...	7,39,725 7 5
With assets amounting to	„ ...	3,07,607 7 3
Grand total	„ ...	10,47,332 14 8

or, as I have roughly put it before in my letter No. 44 of 31st August, 1877 (now slightly corrected), revenue 28 lakhs (25 lakhs cash and 3 lakhs assets), that 9½ lakhs have been expended to produce revenue, which, with 3 lakhs of establishment, gives 12½ lakhs, leaving 15½ lakhs, of which 5 lakhs (2½ lakhs conservancy and 2½ lakhs establishment) have been spent on improving the forests, giving a money profit of 10½ lakhs (7½ lakhs cash and 3 lakhs assets.)

III.—UNRESERVED OR DISTRICT FOREST. (Blank.)

IV.—GENERAL REMARKS.

55. A contract was taken up during the year to supply the Patna agency with 50,000 cubic feet of sál wood per annum for three years or 1,50,000 cubic feet in all. The unseasonable weather has made rafting difficult, though two years' supply was cut and carted to the river bank. To start with, some of our Bahramghat stock was sent direct.

56. In the Bhira sub-division, though interested and ignorant people say that there has not been and will not be large timber in the forests, I have now seen large sound trees (two left from religious motives on the road from Bhira to Seramau), and have seen the stumps in the village lands of Kumbhi of some 30 trees (at the edge of the Katna forests) that, having formed a grove sacred to Mahadeo, were for a long time spared, but at last were sold by the landlord for about Rs. 1,200 or Rs. 40 a piece as

they stood. The wonder is that we have such good young poles as we have, and it is greatly to be regretted that Mr. Wilmot had to be taken away.

57. In the spring of 1876, the sál tree almost universally flowered in Oudh; in the two preceding years hardly a tree flowered, and this year (1877) it has been the same. A great deal of the seed must, however, have been destroyed as the rains were rather late. I think it as well to put this on record, as it may be of interest hereafter in studying the annual growth of sál, as the tree being covered with blossom and fruit for a long time and hardly any leaves, I expect the growth of wood would be small.

58. The unusual drought that there has been in Oudh and other parts of India I think shows that we should be careful not too put to much land under the plough, and that the grass lands in the vicinity of the forests should be reserved for grazing, for if there be not some extensive grass reserves for the cattle to go to when the rains fail numbers of them must starve.

59. Mr. Ponsonby's health failed him, and he had to take two years' furlough to England.

60. Mr. Dodsworth, though relieved for a time of the Bhira sub-division and Bahramghat depôt, has had to work single-handed, and has worked with his usual energy and tact and done splendid work. He has, I am glad to say, been promoted to an officiating appointment as Deputy Conservator, and I shall be glad when his promotion is permanent.

61. Mr. Hillier joined in October from the Punjab, and was laid up for some time by a serious attack of dingue fever. He has succeeded in obtaining sales by auction of refuse scantlings, and has worked the saw machinery successfully. He has been passed over in his promotion, and I think that were he promoted to the first grade he would take more interest in his work than he does now as a disappointed man.

62. Mr. Wilmot did good work at Bahramghat till relieved by Mr. Hillier, when he took over charge of the Bhira sub-division, where he was doing well, and had to take over charge from Mr. Ponsonby of the Bahraich and Gonda divisions. He is taking great interest in the Motipur sub-division of the Bahraich division, and I trust that he will be allowed to have this as a separate charge, as we shall then be able to reap the benefit of his forest training, whereas with his present charge of three sub-divisions he can scarcely do more than generally superintend the management of them.

63. Babus Kunhya Lal of the direction office, Bankey Lal of the Kheri office, and Rangers Kasim Khan (who so ably helped Mr. Dodsworth in the felling and despatching the timber in the Khairigarh sub-division) and Amanatulla Khan deserve favourable mention. The rest of the forest staff have worked well, with the exception of Ranger Abul Hassan and Forester Kadir Buksh, who have been dismissed.

64. With reference to the last para. of the Government of India's Department of Revenue, Agriculture, and Commerce letter No. 227 of 13th February, 1877, I regret that in my last year's report, from press of time and the idea that short reports were wanted, I failed to note all the progress that had been made in the management and improvement of the forests. We *are* making progress, though not so rapid as I should wish for. My fault hitherto I thought had been an excess of zeal in the interests of my department, and I trust His Honour the Lieutenant-Governor and Chief Commissioner, who saw my work, as I pointed out in para. 34 of my last year's report, will believe that, though much has not been said about the good management and improvement of the forests, the most has really been done with the small staff placed at my disposal.

E. WOOD, CAPTAIN,

Conservator of Forests, Oudh.

APPENDIX A.

REPORT ON THE EXPERIMENTAL FELLINGS IN THE CLOSED BLOCK.

Daniapur, No. 8, Bhira Sub-division.

Area—The area enclosed was six acres, which was demarcated by a ditch 2′ × 2′ ; the internal divisions into acres by a ditch 1′ × 1′.

Cost.—The cost of ditching, felling, barking, stacking, and of digging an experimental well amounted to Rs. 37-8-9.

Soil.—Water is found at about 20′ from the surface after cutting through a bed of hard yellow clay streaked with blue, interspersed with occasional lumps of kunkar. A spring, however, was not reached, but wet quicksand mixed with kunkar. There was about 9″ to 12″ of soil at the surface, more or less mixed with vegetable mould.

Growth.—The growth in the six acres was fairly good. The ground was well covered. There was a fine crop of sál shoots and very few seedlings.

Trees were felled level with the ground and the stumps were roughly rounded off with the axe. All under-growth was cut with the hasia close to the ground in compartments Nos. 1 and 4 ; in the others it was left intact. Timber considered fit for building purposes was barked and laid parallel to the boundary ditch ; small stuff with branches, &c., was piled in heaps on each acre. Annexed are two tables and a plan of the enclosure, from which may be seen the mode of treatment adopted in each compartment.

It will be observed that the number of trees to the acre was very high, but that the proportion of trees yielding building material to the total number per acre is small.

An offer of Rs. 10 for all timber felled within the enclosure was refused.

List of trees felled in compartment No. 1, including serviceable and otherwise.

Sál	..	...	...	372	Bhingi	...	...	...	7
Asaina	...	...	...	152	Morain	...	...	...	17
Sídha	...	...	...	28	Aonla	...	...	...	4
Chíla	...	...	...	12	Khágar	...	...	...	2
Chironji	...	...	...	67	Udhura	...	...	...	2
Pata	...	...	...	14	Kari	...	...	...	4
Tendu	...	...	...	1	Bahera	...	...	...	1
Bhiláwan		...	...	7	Para	...	...	...	1
Hur	...	...	...	2	Total No. of trees			...	693

List of trees fit for building purposes felled in each compartment.

Description.	Compartment No. 1.			Compartment No. 2			Compartment No 4.			Compartment No. 5.			Compartment No. 6.			Total.	
	Sál.	Asaina.	Miscellaneous.	Sál.	Asaina.	Miscellaneous.	Sál.	Asaina.	Miscellaneous.	Sál.	Asaina.	Miscellaneous.	Sál.	Asaina	Miscellaneous		
*Korons,	100	69	25	32	29	34	96	43	81	37	28	9	52	27	24	686	* Poles for thatches.
†Ballis,	43	21	4	7	6	2	36	19	...	18	9	6	21	19	...	211	† Main poles.
‡Golas ...	...	6	4	1	2	11	9	11	4	4	1	2	2	...	...	57	‡ Thick short poles.
§Botas ...	...	...	4	8	3	...	...	3	7	8	5	7	6	4	...	57	§ Short trunks.
Total ...	143	96	37	48	40	47	141	76	92	67	43	24	83	50	24	1,011	

In the opinion of the undersigned the treatment followed in Compartment No. 2 is the one which most recommends itself as a source of revenue combined with improvement of the forests.

Compartment No. IV. Completely cut over with a view to letting true seedlings only spring up.	Compartment No. V. Cut in strips 20′ broad, alternate strips being completely cleared, and left standing with a view to letting every thing come up.*	Compartment No. VI. Cut in strips 20′ broad, alternate strips being completely cleared, and left standing with a view to allowing only true seedlings to come up.	* V. Tea; some seed sown as an experiment.
Compartment No. I. Completely cut over, with a view to letting everything spring up.	*Compartment No. II. Everything felled with exception of straight sál and asaina, which might under favourable circumstances yield timber.	† Compartment No. III. Left intact.	† III. Well.

Mailáni. District road. Kukra.

With regard to measuring the cubical contents of the felled timber, this would only be practicable by weighing, by displacement of water, or by multiplying the length × superficial area at base with the reducing factor for each kind of tree. This factor is unfortunately not forthcoming, and there was no opportunity of employing the other two methods. It would appear, however, of greater importance to know the outturn of each acre expressed in terms referable to the local market. No timber is sold here by the cubic foot, but by the score or hundred. The value of the out-turn per acre can thus readily be calculated whenever a demand for building material arises in this part of the forest to fix a price.

CAMP MAILÁNI:
The 23rd February, 1877.

S. EARDLEY WILMOT,
Assistant Conservator.

APPENDIX I.

FORM No. 45.

FOREST DEPARTMENT, OUDH.

Area of Reserved Forests, 1876-77.

Division or Range.	Name of Forest.	*Area on 1st April*, 1876.		*Added during the year.*		*Excluded or transferred to other heads.*		*Total on 31st March*, 1877.		No. and date of Notification of additions and transfers, &c.	REMARKS.
		Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.		
Kheri Division ...	Khairigarh, Nawalkhar, and Bhira forests.	427	...	...	...	...	...	427	...	...	Kheri, 263, Bhira Sub-division, 164.
Bahraich Division ...	Motipur and Bhinga forests,	257	...	...	...	...	...	257	...		
Gonda Division ...	Gonda forests ...	140	...	...	...	...	...	140	...		
	Total ...	824	...	...	...	...	...	824	...		

APPENDIX II.

Area of Unreserved Forests, 1876-77.

Nil.

APPENDIX III.

FORM No. 46.

Area of Plantations, 1876-77.

Division.	Name of plantation.	ON 1ST APRIL, 1876.		DURING 1876-77.		ON 1ST MARCH, 1877.		Remarks.
		Area.	Total cost.	Area added.	Cost.	Total area.	Total cost.	
				Nil.				

NOTE.—No areas should be entered in this return which are not fairly stocked.

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX IV.

FORM No. 47.

FOREST DEPARTMENT, OUDH.

Area of Forest tracts protected from fire during the dry season of 1877, *(to accompany report for* 1876-77.*)*

Division.	Forest tracts.	Up to 31st March, 1876.		During dry Season of 1877.				Total cost up to 30th June, 1877.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failure.	Actually protected.	Amount expended.			
		Acres.	Rs. a. p	Acres.	Acres.	Acres.	Rs. a. p.	Rs. a. p.		
Kheri ...	Dudua Home block	12,800	*2,196 7 0	19,200	80	19,120	753 7 5	‡2,949 14 5	March, 1872	Newal khar sub-division. * Rs. 546-8-9 for April, May and June, 1876, are added.
	N.E. Daniapur conserved block.	...	...	2,880	720	2,160	242 4 8	242 4 8	Jany., 1877...	
Bahraich ...	Charda Section V., Block No. 3, Bhinga, Section VII.	6,400 1,280	2,610 0 3	6,400 2,347	...	6,400 2,347	† 2,364 5 4	4,974 5 7	March, 1875	† Of this half is for new and old fire paths in this and other Sections. Section VI. was also protected.
Gonda ...	Ditto ...	...	...	...	...	...	...	...	...	‡ Up to 27th June, 1877. Bhira sub-division.
	Total ...	20,480	4,806 7 3	30,827	800	30,027	3,360 1 5	8,166 8 8	...	

NOTE.—This form is for the dry season and not for the financial year, and therefore the date up to which expenditure is included must be filled in to suit the circumstances of each Province.

		Rs. a. p.
Charged in previous years	...	4,259 14 6
" " 1876-77	...	2,975 12 3
" " 1877-78	...	930 13 11
Total	...	8,166 8 8

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX V.

FORM No. 48.

FOREST DEPARTMENT, OUDH.

Prosecutions for Breaches of Forest Rules, 1876-77.

Forest Division and Civil District.	*Injury to forests by fire.*		*Unauthorized felling or appropriation of wood and minor forest produce.*		*Grazing without permission or in tracts in which grazing is prohibited.*		*Other offences.*		TOTAL.				REMARKS.
									Prosecutions.		*Convictions.*		
	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Bahramghat Depôt ... ... District Bara Banki	...	...	...	...	...	...	3	6	3	6	2	5	One released.
Kheri Division ... ... District Kheri	...	...	8	15	...	...	...	...	8	15	7	10	
Bahraich Division ... ... District Bahraich	...	...	29	58	...	...	...	...	29	58	21	44	
Gonda Division ... ... District Gonda	...	...	2	5	...	...	...	...	2	5	2	5	
Total ...	...	...	39	78	...	...	3	6	42	84	32	64	

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX VI.

OLD FORM No. 21.

FOREST DEPARTMENT, OUDH.

Summary of Revenue and Expenditure in the Different Divisions during 1876-77.

Classifications.	Direction.	Kheri Division.	Bahraich Division.	Gonda Division.	Total.
Receipts.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Revenue from wood and Bamboos.					
1. Brought to depôt by departmental agency.					
(a.) Timber and bamboos,	...	1,15,924 15 10	3,127 0 0	...	1,19,051 15 10
(b.) Firewood and charcoal.	...	15,038 1 1	...	...	15,038 1 1
(c.) Sandal wood ...	...	...	...	...	...
2. Wood and bamboos removed from the forests by purchasers, license-holders and permit-holders.					
(a.) Timber and bamboos,	...	50,218 11 6	1,01,245 1 6	8,906 8 5	1,60,370 5 5
(b.) Firewood and charcoal.	...	626 13 6	347 3 2	1,034 8 6	2,008 9 2
3. From confiscated, drift, and waif-wood.	...	659 8 6	2,348 14 0	3 11 2	3,012 1 8
II.—Revenue from minor produce.					
1. Grazing dues and sale of grass.	...	14,676 10 6	7,244 8 9	277 4 3	22,198 7 6
2. Other minor produce ...	...	1,207 7 0	788 6 6	67 11 9	2,063 9 3
III.—Duty on produce of foreign or private forests imported into British Territory.					
1. On wood ...	...	...	...	...	...
2. On other forest produce ...	...	...	...	...	...
IV.—Miscellaneous.					
1. From fines and forfeitures,	...	1,410 14 8	91 13 0	0 3 0	1,502 14 8
2. From refunds to the department	...	7,936 10 2	31 10 4	...	7,968 4 6
3. From other sources ...	...	1,295 1 5	770 9 7	170 3 7	2,235 14 0
Total Receipts ...	...	2,08,994 14 2	1,15,995 2 10	10,460 2 1	3,35,450 3 1
Expenditure.					
A.—Conservancy and Works.					
I.—Cost of Timber operations.					
1. Brought to depôt by departmental agency.					
(a.) Timber and bamboos,	...	88,187 13 9	415 10 8	...	88,603 8 5
(b.) Firewood and charcoal.	...	13,522 1 5	...	...	13,522 1 5
(c.) Sandal wood ...	...	...	...	...	...
Carried forward ...	...	1,01,709 15 2	415 10 8	...	1,02,125 9 10

OLD FORM No. 21.—(*continued*).

Classifications.	Direction.	Kheri Division.	Bahraich Division.	Gonda Division.	Total.
Expenditure—(continued).	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought over, ...	...	1,01,709 15 2	415 10 8	...	1,02,125 9 10
2. Wood and bamboos removed from the forests by purchasers, license-holders and permit-holders.					
(*a.*) Timber and bamboos,	...	158 9 8	470 8 3	80 0 0	709 1 11
(*b.*) Firewood and charcoal.	...	...	...	...	...
3. On confiscated, drift, and waif-wood.	...	19 5 4	...	...	19 5 4
II.—Cost of collecting minor produce.					
1. Grazing and sale of grass,	...	1,403 7 0	1,186 12 0	278 7 7	2,868 10 7
2. Other forest produce ...	...	48 15 11	61 11 1	13 8 0	124 3 0
III.—Cost of forest organization.					
1. Demarcation lines and boundary pillars or marks.	...	886 1 3	745 9 0	...	1,631 10 3
2. Working plans ...	...	...	...	...	...
3. Surveys ...	...	...	...	...	...
IV.—Cost of the treatment and creation of forests.					
1. Natural forests.					
(*a.*) Protection from fire,	...	880 15 8	2,084 1 7	291 14 9	3,257 0 0
(*b.*) Fencing and enclosing,	...	...	456 7 9	...	456 7 9
(*c.*) Improvement and conservation.	...	608 2 10	3 10 0	210 0 0	821 12 10
(*d.*) "Reboisement" or restoration of denuded areas.	...	13 2 0	279 2 0	...	292 4 0
2. Artificial forests.					
(*a.*) Formation ...	...	...	...	...	...
(*b.*) Protection from fire,	...	...	...	...	...
(*c.*) Improvement and conservation.	...	...	...	...	...
(*d.*) Fencing and enclosing.	...	...	...	...	...
V.—Rent of leased forests.					
VI.—Cost of collecting duty on produce of foreign or private forests imported into British Territory					
VII.—Works of utility for the development of forests					
1. Roads and bridges ...	...	5,853 15 4	465 7 0	1 0 6	6,320 6 10
2. Buildings and offices ...	...	4,663 12 0	517 9 9	33 6 0	5,214 11 9
3. Compensation for land taken up for forest purpose, or for extinction of forest rights.	...	...	...	...	...
4. Other works ...	...	3,389 10 8	333 15 0	...	3,723 9 8
VIII.—Cost of departmental cattle.					
1. Purchase of stock ...	...	...	...	...	...
2. Hire of stock ...	...	...	...	...	...
3. Feed and keep of cattle ...	...	2,977 10 9	548 13 11	...	3,526 8 8
Carried forward, ...	...	1,22,613 0 7	7,570 6 0	908 4 10	1,31,091 6 5

OLD FORM No. 21.—(*concluded.*)

Classifications.	Direction.	Kheri Division.	Bahraich Division.	Gonda Division.	Total.
Expenditure—(concluded).	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought over ...	...	1,22,613 0 7	7,570 6 0	908 4 10	1,31,091 6 5
IX.—Cost of departmental plant and tools.					
1. For timber and wood operations.	...	415 12 7	...	...	415 12 7
2. For other purposes ...	...	237 10 2	48 8 3	0 14 6	287 0 11
X.—Miscellaneous charges.					
1. Refunds ...	...	9,181 8 3	234 0 9	30 0 0	*9,445 9 0
2. Law charges ...	...	181 6 9	...	...	181 6 9
3. Other charges ...	...	652 8 4	115 14 10	57 10 3	826 1 5
Total of A. Conservancy and works.	...	1,33,282 9 8	7,967 13 10	996 13 7	1,42,247 5 1
B. Establishments.					
I.—Salaries ...	19,921 9 2	20,537 3 7	10,273 9 1	1,732 0 0	52,464 5 10
II.—Travelling allowances ...	1,978 15 9	4,775 0 8	1,717 1 10	255 10 9	8,726 13 0
III.—Contingencies ...	412 13 6	1,067 3 3	277 7 6	123 12 3	1,881 4 6
Total of B. establishments,	22,313 6 5	26,379 7 6	12,268 2 5	2,111 7 0	63,072 7 4
Grand total expenditure ...	22,313 6 5	1,59,662 1 2	20,236 0 3	3,108 4 7	2,05,319 12 5

* Rs. 9,445-9-0 have been debited in the books of the Accountant-General's Office under the head 3 refunds and drawbacks.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

DATED BAHRAMGHAT,
The 11th May, 1877.

APPENDIX VII.

OLD FORM No. 22.

FOREST DEPARTMENT, OUDH.

Abstract account of the cash transactions of the Forest Department in the year 1876-77.

Year.	Heads of Account.	Amount. Rs.	a.	p.
1876-77.	To Cash balance in hand on 1st April, 1876 ...	25,085	5	2
	„ Revenue received	3,35,450	3	1
	„ Remittances from public treasuries	1,70,026	3	3
	„ Advances recovered	3,77,828	0	1
	„ Suspense account recovered	6,091	11	2
	„ Deposits received	16,663	4	0
	„ Subscription and fees of Uncovenanted Civil Service Family Pension Fund	295	10	0
	„ Transfer from divisions	9,347	8	3
	„ „ from Public Works Department, Oudh ...	10,229	2	0
	„ „ from Military Works, Dinapur division ...	32	6	0
	„ „ from Superintendent, Government Stationery, Calcutta	3	0	0
	„ „ from Superintendent, Roorkee Workshops,	9	14	0
	„ Value of medicines supplied by Military Department, Bengal	455	2	0
	Account current with Panjáb.			
	On account of advance made to Mr. Hillier ...	350	0	0
	Total ...	9,51,867	5	0

Year.	Heads of Account.	Amount. Rs.	a.	p.
1876-77.	By expenditure of the department.			
	„ A. Conservancy and works	*1,42,247	5	1
	„ B. Establishments	63,072	7	4
	Total ...	2,05,319	12	5
	By Remittances into public treasuries	1,65,276	12	7
	„ Advances made	3,80,443	6	1
	„ Suspense account	5,709	14	10
	„ Deposits repaid	16,685	4	3
	„ Transfer to divisions	10,561	13	7
	„ Book transfer to Executive Commissariat Officer, Lucknow	7,431	8	5
	„ „ to Executive Engineer, Military Works, Special Division II. Allahabad ...	9,577	2	7
	„ „ to Public Works Department, Oudh	26,773	0	8
	„ „ to Executive Engineer, Military Works, Lucknow	8,015	12	7
	„ „ to Executive Engineer, Western Jumna Canal, Karnal Division ...	4,400	9	7
	„ „ to Executive Engineer, Military Works, Dinapur Division	10,194	1	0
	„ „ to Executive Engineer, Bareilly, Rohilkhand Canals, North-Western Provinces	311	2	8
	„ „ to Executive Engineer, Dehri Workshops	2,031	8	9
	„ „ to Ordnance Department, Fatehgarh,	79,900	1	0
	„ Profit and Loss	182	8	4
	Total expenditure ...	9,32,814	7	4
	Cash balance on 31st March, 1877 ...	19,052	13	8
	Total ...	9,51,867	5	0

DATED CAMP, BAHRAMGHAT,
The 11th May, 1877.

* Of this, Rs. 9,445-9-0 have been debited in the books of the Accountant-General's Office, under the head 3, refunds and drawbacks.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX VIII.

FORM No. 49.

FOREST DEPARTMENT, OUDH.

Summary of Revenue of the different Divisions, 1876-77.

Budget Heads.	Direction.	Kheri Division.	Bahraich Division.	Gonda Division.	Division.	Division.	Division.	Division.	Total.
RECEIPTS.		Rs. a. p.	Rs. a. p.	Rs. a. p.					Rs. a. p.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY :—									
a. Timber	...	1,15,924 15 10	3,127 0 0	...	...	...	...	...	1,19,051 15 10
b. Firewood and charcoal ...	...	15,038 1 1	...	...	...	...	...	...	15,038 1 1
c. Bamboos	...	...	...	...	...	...	...	...	...
d. Sandal-wood	...	..	...	...	..	...	...	...	..
e. Grass and other minor produce	...	...	...	...	...	...	...	..	...
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS :—									
a. Timber	...	50,218 11 6	1,01,245 1 6	8,906 8 5	...	...	...	...	1,60,370 5 5
b. Firewood and charcoal ...	...	626 13 6	347 3 2	1,034 8 6	...	...	...	...	2,008 9 2
c. Bamboos	...	...	...	...	...	...	...	...	...
d. Grazing and fodder grass ...	...	14,676 10 6	7,244 8 9	277 4 3	...	...	...	...	22,198 7 6
e. Other minor produce ...	...	1,207 7 0	788 6 6	67 11 9	...	...	...	...	2,063 9 3
III.—CONFISCATED, DRIFT AND WAIF-WOOD,	...	659 8 6	2,348 14 0	3 11 2	...	...	...	...	3,012 1 8
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT :—									
a. Duty on foreign timber and other forest produce.	...	...	...	...	...	...	...	...	...
b. Revenue from shared and private forests.	...	...	...	...	...	...	...	...	...
V.— MISCELLANEOUS :—									
a. Fines and forfeitures ...	...	1,410 14 8	91 13 0	0 3 0	...	...	...	...	1,502 14 8
b. Refunds	...	7,936 10 2	31 10 4	...	...	...	...	...	7,968 4 6
c. Other sources	...	1,295 1 5	770 9 7	170 3 7	...	...	...	...	2,235 14 0
TOTAL RECEIPTS ...	...	2,08,994 14 2	1,15,995 2 10	10,460 2 1	...	...	...	...	3,35,450 3 1
A.—CONSERVANCY AND WORKS.									
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY :—									
a. Timber	...	88,187 13 9	415 10 8	...	...	...	...	...	88,603 8 5
b. Firewood and charcoal ...	...	13,522 1 5	...	...	...	...	...	...	13,522 1 5

c. Bamboos ...	...	...	...	...	...	...	...	...	...
d. Sandal-wood ...	...	...	...	...	...	...	...	...	...
e. Grass and other minor produce	...	...	...	...	...	...	...	...	...
II.—Timber and other produce removed from the forests by consumers or purchasers ...	...	1,611 0 7	1,718 15 4	371 15 7	...	...	...	...	3,701 15 6
III.—Confiscated, drift, and waif-wood	...	19 5 4	...	...	...	...	...	...	19 5 4
IV.—Revenue from forests not managed by Government:—									
a. Duty on foreign timber and other forest produce ...	...	...	...	...	...	...	...	...	...
b. Revenue from shared and private forests ...	...	...	...	...	...	...	...	...	...
V.—Rent of leased forests and payments to shareholders in forests managed by Government	...	...	...	...	...	...	...	...	...
VI.—Live and dead stock:—									
a. Purchase of cattle ...	...	...	...	...	...	...	...	...	...
b. Feed and keep of cattle ...	...	2,977 10 9	548 13 11	...	...	...	...	...	3,526 8 8
c. Plant, tools, and instruments,	...	653 6 9	48 8 3	0 14 6	...	...	...	...	702 13 6
VII.—Communications and buildings:—									
a. Roads and bridges ...	...	5,853 15 4	465 7 0	1 0 6	...	...	...	..	6,320 6 10
b. Buildings ...	...	4,663 12 0	517 9 9	33 6 0	...	...	...	...	5,214 11 9
c. Other works ...	...	3,389 10 8	333 15 0	...	...	...	...	...	3,723 9 8
VIII.—Demarcation, improvement, and extension of forests:—									
a. Demarcation ...	...	886 1 3	745 9 0	...	...	...	...	...	1,631 10 3
b. Compensation for land and rights, ...	...	...	...	...	...	...	...	...	...
c. Surveys and working-plans	...	...	...	...	...	...	...	...	...
d. Plantations ...	...	...	...	...	...	...	...	...	...
e. Protection from fire ...	...	880 15 8	2,084 1 7	291 14 9	...	...	...	...	3,257 0 0
f. Other works ..	...	621 4 10	739 3 9	210 0 0	...	...	...	...	1,570 8 7
IX.—Miscellaneous:—									
a. Refunds ...	...	9,181 8 3	234 0 9	30 0 0	...	...	...	...	9,445 9 0
b. Law charges ...	...	181 6 9	...	...	...	...	—	...	181 6 9
c. Other charges ...	...	652 8 4	115 14 10	57 10 3	...	...	...	...	826 1 5
Total, A.—Conservancy and works...	...	1,33,282 9 8	7,967 13 10	996 13 7	...	...	...	...	1,42,247 5 1

APPENDIX VIII.—(*concluded.*)

FORM No. 49.

FOREST DEPARTMENT, OUDH.

Summary of Expenditure of the different Divisions, 1876-77—(concluded).

Budget heads.	Direction.	Kheri Division.	Bahraich Division.	Gonda Division.	Division.	Division.	Division.	Division.	Total.
B.—ESTABLISHMENT.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward, Total A., Conservancy and works	...	1,33,282 9 8	7,967 13 10	996 13 7	...	...	...	...	1,42,247 5 1
I.—SALARIES :—									
a. Conservators ...	13,109 3 6	...	...	...	...	...	...	...	13,109 3 6
b. Superior officers ...	...	10,415 12 10	6,112 14 5	...	...	...	...	...	16,528 11 3
c. Subordinate forest and depôt establishments ...	...	7,507 11 5	3,262 11 0	1,452 0 0	...	...	...	...	12,222 6 5
d. Office Establishments ..	1,866 2 6	2,613 11 4	897 15 8	280 0 0	...	...	...	...	5,657 13 6
e. Deputation and special allowances ...	4,946 3 2	...	...	...	...	...	...	...	4,946 3 2
II.—TRAVELLING ALLOWANCES :—									
a. Conservators ...	1,577 10 0	...	...	...	...	...	...	...	1,577 10 0
b. Superior officers ...	...	3,028 1 0	1,056 10 0	...	...	...	...	...	4,084 11 0
c. Subordinate forest and depôt establishments ...	...	1,082 10 9	487 8 1	189 5 3	...	...	...	...	1,759 8 1
d. Office establishments ...	401 5 9	664 4 11	172 15 9	66 5 6	...	...	...	...	1,304 15 11
III.—CONTINGENCIES :—									
a. Stationery	6 5 0	8 5 0	7 4 6	0 4 6	...	...	...	...	22 3 0
b. Carriage of tents and records,	128 15 2	117 13 5	73 3 3	31 12 0	...	...	...	...	351 11 10
c. Pay of police guards ...	...	401 12 6	87 5 11	56 7 3	...	...	...	...	545 9 8
d. Sundries	187 10 4	341 1 10	61 10 4	23 4 0	...	...	...	...	613 10 6
e. Official postage ...	89 15 0	198 2 6	47 15 6	12 0 6	...	...	...	...	348 1 6
TOTAL, B. ESTABLISHMENTS ...	22,313 6 5	26,379 7 6	12,268 2 5	2,111 7 0	...	...	...	...	63,072 7 4
GRAND TOTAL OF EXPENDITURE ...	22,313 6 5	1,59,662 1 2	20,236 0 8	3,108 4 7	...	...	...	...	2,05,319 12 5

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX IX.

FORM No. 51.

FOREST DEPARTMENT, OUDH.

Statement of Outstandings and Liabilities on account of Contractors, 1876-77.

Division.	Department Debtor.			Department Creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings.)	By Department (Liabilities.)	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs a. p.	Rs. a. p.	Rs. a. p.	
Kheri Division.									
Old account (bad debts),	...	19,986 12 10	19,986 12 10	19,986 12 10	...	19,986 12 10	...	...	Charged off, *vide* Government of India, Revenue, Agriculture, and Commerce, No. 131, dated 31st January, 1877.
New ,, (carters) ...	...	12,249 3 7	12,249 3 7*	9,623 15 6	10,680 7 7	20,304 7 1	8,056 3 6†	...	*Of this, Rs. 1,451-10-7 charged off as above.
,, ,, (Rafting contractors).	20 0 0	6,474 2 8	6,494 2 8	6,494 2 8	...	6,494 2 8	...	...	†All realized but Rs. 14-14-9, charged off, *vide* Government of India's sanction above quoted.
,, ,, Other contractors.	...	...	...	...	...	...	...	...	
Fuel contractors.									
Madho Parshad and Moolchand.	2,133 4 10	...	2,133 4 10	...	1,683 12 0	...	...	449 8 10	
Gauri Shankar, ...	...	10,799 14 3	10,799 14 3	13,102 12 7	2,366 5 5	15,469 2 0	4,669 3 9	...	
Rafting contractors.									
Bhola Mallah ...	...	1,548 13 4	1,548 13 4	227 12 4	1,292 0 8	1,519 13 0	...	29 0 4	
Gauri Shankar ...	...	...	...	...	717 0 3	717 0 3	717 0 3	...	
Boat making contractors.									
Debi and Bhakkoo ...	...	419 12 0	419 12 0	200 0 0	254 12 0	454 12 0	35 0 0	...	
Sawing contractors.									
Oatri Paltan and others,	...	1,437 9 5	1,437 9 5	390 0 0	1,047 9 5	1,437 9 5	...	...	
Miscellaneous works contractor.									
Chedi Lal ...	...	381 9 9	381 9 9	272 10 2	108 15 7	381 9 9	...	...	
Total, other contractors,	2,133 4 10	14,587 10 9	16,720 15 7	14,193 3 1	6,753 7 1	20,946 10 2	5,421 4 0	478 9 2	
Total ...	2,153 4 10	53,297 13 10	55,451 2 8	50,298 2 1	17,433 14 8	67,732 0 9	13,476 7 6	478 9 2	

Rs.	a.	p.
19,986	12	10
1,451	10	7
6,494	2	8
27,932	10	1
20	0	0
27,912	10	1

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX X.

FORM No. 51.—*(continued).*

FOREST DEPARTMENT, OUDH.

Statement of Outstandings and Liabilities on account of Disbursers, 1876-77.

Division.	Department Debtor.			Department Creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings.)	By Department (Liabilities.)	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction ...	...	17 6 0	17 6 0	384 15 7	32 2 0	417 1 7	399 11 7	...	
Kheri Division.	...	3,30,407 3 10	3,30,407 3 10	11,800 1 9	3,24,391 5 5	3,36,191 7 2	6,128 5 10*	344 2 6†	* Kheri Division 5,500 14 0 * Bhira sub-division 157 12 1 * Bahramghat „ 469 11 9 6,128 5 10 † Kheri Division.
Bahraich Division.	450 9 3	41,843 10 2	42,294 3 5	1,860 13 10	47,705 2 2	49,566 0 0	7,610 7 3	338 10 8	
Gonda Division.	...	11,651 7 3	11,651 7 3	33 0 0	13,992 7 0	14,025 7 0	2,373 15 9	...	
TOTAL ...	450 9 3	3,83,919 11 3	3,84,370 4 6	14,078 15 2	3,86,121 0 7	4,00,199 15 9	16,512 8 5	682 13 2	

Annual abstract account current advances made	3,80,443 6 1
Suspense account	5,709 14 10
	3,86,153 4 11
	3,86,121 0 7
These items, *viz.*, Rs. 30 and (7-4-0—4-15-8)—Rs. 2-4-4 ... will be adjusted in 1877-78.	32 4 4

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX XI.

FORM No. 51.—*(concluded.)*

FOREST DEPARTMENT OUDH.

Statement of Outstandings and Liabilities on account of Timber Sales, 1876-77.

Division.	Department Debtor.			Department Creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Department (Liabilities).	
KHERI DIVISION.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Exe. Engr., Sitapur Provincial Division, P. W. Department.	8,541 10 0	980 5 6	9,521 15 6	...	9,521 15 6	9,521 15 6	...	...	
Azim-ulla, of Pilibhit ...	50 0 0	...	50 0 0	...	50 0 0	50 0 0	...	...	
Pirbhu Dial Karinda, Oel ...	...	50 0 0	50 0 0	50 0 0	...	50 0 0	...	...	
BAHRAMGHAT DEPÔT.									
Military Works, Dinapur ...	32 6 0	...	32 6 0	...	32 6 0	32 6 0	...	...	
Oudh and R. Ry., Lucknow ...	23 13 4	...	23 13 4	...	8,896 3 11	8,896 3 11	8,896 3 11	23 13 4	Since realized.
Fyzabad Provincial Division ...	...	784 0 2	784 0 2	795 13 6	...	795 13 6	11 13 4*	...	
Rae Bareli ditto ditto ...	...	445 7 3	445 7 3	452 14 8	661 2 10	1,114 1 6	668 10 3†	...	
Lucknow ditto ditto ...	...	768 0 0	768 0 0	773 14 5	500 3 2	1,274 1 7	506 1 7‡	...	
Exe. Commissat. Officer, Lucknow,	...	277 13 8	277 13 8	277 13 8	20 5 2	298 2 10	20 5 2	...	
Supdt., Central Prison, Benares,	...	2,382 11 9	2,382 11 9	2,382 11 9	3,000 0 0	5,382 11 9	3,000 0 0	...	Since realized.
Military Works, Allahabad ...	...	2,953 8 7	2,953 8 7	2,953 8 7	...	2,953 8 7		...	
Native purchasers	...	1,400 4 5	1,400 4 5	1,400 4 5	1,061 0 0	2,461 4 5	1,061 0 0	...	Ditto.
Exe. Engineer, Western Jumna Canal, Karnal Division.	...	...	...	...	26 7 0	26 7 0	26 7 0	...	
Resident Engr., O. and R. Ry. ...	...	...	...	...	436 9 9	436 9 9	436 9 9	...	Ditto.
Mr. J. C. Rogers, Contractor, Cawnpore.	...	...	...	...	427 12 8	427 12 8	427 12 8	...	Ditto.
Political Agent, Alwar ...	...	...	...	...	2,988 7 11	2,988 7 11	2,988 7 11	...	Ditto Rs. 2,985.
Head Master High school, Partabgarh.	...	...	...	...	120 11 9	120 11 9	120 11 9	...	Since realized.
District Superintendent, Unao ..	...	...	...	...	33 9 0	33 9 0	33 9 0	...	Ditto.
Ordnance Department, Fatehgarh,	...	...	...	...	7,654 14 10	7,654 14 10	7,654 14 10	...	
Supdt., Central Prison, Allahabad,	...	4,000 0 0	4,000 0 0	...	2,894 14 1	2,894 14 1	...	1,105 1 11	Since adjusted.
Exec Commissat. Officer, Lucknow.	...	674 8 0	674 8 0	674 8 0	...	674 8 0	...	...	Firewood.
Exe. Engr., Mility. W., Lucknow,	...	157 8 2	157 8 2	157 8 2	...	157 8 2	...	...	Charcoal.
Total ...	8,647 13 4	14,874 3 6	23,522 0 10	9,919 1 2	38,326 11 7	48,245 12 9	25,852 11 2§	1,128 15 3	

DATED NAINI TAL,
The 27th September, 1877.

* Not paid, on account of less measurememt.
† Rs 7-7-5 debited in excess in 1875-76 for carriage.
‡ Rs. 5-14-5, value of 4·66 cubic feet of Asna at 1-4-3 per cubic foot, said to have not been received.

§ For 1875-76 ... Rs. 25 3 2
" 1876-77 ... 25,827 8 0
25,852 11 2

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX XII.

FORM No. 52.

FOREST DEPARTMENT, OUDH.

Statement of Outstandings on account of Revenue, 1876-77.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Kheri Division	On account leases of minor forest produce,	91 0 0	...	91 0 0	...	91 0 0	From Jang Bahadar Shah.
	Ditto leases of do. do. ...	107 0 0	...	107 0 0	...	107 0 0	" Ranjit Shah.
	Ditto grazing dues	427 0 0	...	427 0 0	...	427 0 0	" Jang Bahadar Shah.
	Ditto do. do.	404 7 0	235 3 0	639 10 0	...	639 10 0	" Newalkhar sub-division.
	Ditto do. do.	1,565 8 0	896 7 0	2,461 15 0	...	2,461 15 0	" Khairigarh sub-division.
Bahraich Division	Ditto green and dry Sissu timber ...	...	1,11,703 15 1	1,11,703 15 1	80,547 1 0	31,184 8 0	" Ordnance Department, Fatehgarh.
	Ditto lease of drift timber ...	...	1,500 0 0	1,500 0 0	1,000 0 0	500 0 0	
	Ditto grazing dues	30,734 14 2	9,238 0 0	39,973 7 11	6,792 11 6	33,180 12 5	
	Ditto minor forest produce, &c. ...	395 0 6	505 0 0	900 0 6	526 4 0	373 12 6	
Gonda Division	Ditto miscellaneous leases ...	...	102 0 0	102 0 0	97 0 0	5 0 0	
	Ditto grazing dues ...	21,836 2 3	4,443 0 9	26,279 3 0	85 8 9	26,193 10 3	
	Total ...	55,560 15 11	1,28,624 3 7	1,84,185 3 6	89,048 9 3	95,136 10 3	

DATED NAINI TAL,
The 7th October, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX XIII.

FORM No. 53.

Statement of Trees felled during the year 1876-77.

Division.	Forest range.	Locality.	Description of trees.	On hand from previous year.		Felled during current year.		Total.		Disposed of during current year.			Closing balance.		Remarks.
				No.	C. ft.	No.	C. ft.	No.	C. ft.	How disposed of.	No.	C. ft.	No.	C. ft.	
	Newalkhar...	Forest Blocks Nos. 2 and 3, north-east of Dudua, Chandpara road.	Sal ...	...	...	3,020	...	3,020	...	Carted to Dudua Depôt.	1,238	...	1,782	...	Including the present year's fellings we have from the 1st October, 1861, or 16 felling seasons, cut 37,211 trees of sál, arsaina and haldu giving an average of 2,326 trees per annum, the working plan allowing 2,900 trees.
			Arsaina ...	...	...	453	...	453	...	Ditto ...	263	...	190	...	
	Khairigarh...	Forest Block No. 4, Bhadowri, east of Fort Ghori Shah, Karia road.	Sál ...	...	...	2,247	...	2,247	...	...	...	...	2,247	...	
		Total ...	...	...	...	5,720	...	5,720	...	...	1,501	...	4,219	...	

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX XIV.

FORM No. 56.

FOREST DEPARTMENT, OUDH.

Account of Timber and other produce, 1876-77.

Particulars.	Pieces. No.	Pieces. Cubic feet.	Total. No.	Total. Cubic feet.
Balance in hand at commencement of year.				
Logs	6,359	...		
„ pieces	...	...		
Sleepers (sál)	614	...		
Scantlings (sál) ..	...	38,836·29		
„ (asna) ...	...	...		
Inferior scantlings ...	...	60,695·74		
Off-cuts (sál) (maunds) ...	..	3,579½		
Ballis	1,897	...		
Firewood (maunds) ...	...	26,513		
Charcoal (maunds) ..	...	1,788¼		
Large boats	...	...		
Canoes	879	...	9,749	99,532·03 Mds. 31,880¾
Received during year.				
Logs	5,002	...		
„ pieces	555	...		
Scantlings (sál) ...	...	134,562·90		
„ (asna) ...	...	17,271·21		
Firewood (maunds) ...	...	32,421		
„ (cubic feet) ...	...	215·91		
Charcoal (maunds) ...	...	921		
Large boats	1	...		
Canoes	31	...		
Cart	1	...		
Refuse timber	...	Unmeasured	5,590	152,050·02 Mds. 33,342
TOTAL ...	...	...	15,339	Cubic feet 251,582·05 Mds. 65,222¾

Particulars.	Pieces. No.	Pieces. Cubic feet.	Total. No.	Total. Cubic feet.
Removed by purchasers.				
Logs } Pieces }	438			
Sleepers	614			
Scantlings (sál) ..				
„ (asna) ...	...	54,507·36		
„ inferior ...				
Off-cuts (sál) (maunds) ...	..	2,762½		
Ballis	1,119	...		
Firewood (maunds) ...	...	57,364		
„ (cubic feet) ...	..	215·91		
Charcoal (maunds) ...	...	921		
Large boat	1	...		
Canoes	115	...		
Cart	1	...		
Refuse timber	...	Unmeasured	2,288	54,723·27 Mds. 61,047½
Lost or used by the Department.				
Logs and pieces ...	2,719			
Scantlings, sál, asna and inferior.	..	114,461·87		
Off-cuts (sál) (maunds) ...	...	817		
Firewood (maunds) ...	...	1,246		
Canoes	14	...	2,733	114,461·87 Mds. 2,063
Balance in hand at close of year.				
Logs and pieces ...	8,759			
Scantlings (sál) ...	...	75,853·85		
„ (asna) ...	...	6,543·06		
Ballis	778	...		
Firewood (maunds) ...	..	324		
Charcoal (maunds) ...	...	1,788¼		
Canoes	781	..	10,318	82,396·91 Mds. 2,112¼
TOTAL ...	...	...	15,339	Cubic feet 251,582·05 Mds. 65,222¾

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX XV.

FORM No. 57.

FOREST DEPARTMENT, OUDH.

Statement showing the amount realized on account of the different classes of timber and other produce sold during 1876-77.

Division.	Description of timber, &c.,	Number of pieces, &c., sold.	Cubic contents.	Amount realized and due on account of sales	Average amount per log, &c.	Average cubical contents of logs.	Average amount per cubic foot.	Remarks.
				Rs. a. p.	Rs. a. p.		Rs. a. p.	
Kheri Division, Soheli depôt,	Logs (sál)	269	13,325·94	6,979 12 5	25 15 1	49·53	0 8 4	
	„ (asna)	32	1,746·80	221 8 10	6 14 9	54·59	0 2 0	
	Scantlings, sál and asna ...	...	1,484·94	1,291 8 2	...	...	0 13 1·4	
	Refuse timber, miscellaneous ...	...	unmeasured.	287 3 8	...	...	...	
	Canoes (sál)	21	...	812 0 0	38 10 8	...	...	
	Cart (country)	1	...	45 0 0	45 0 0	...	...	
	Firewood	12	215·91	26 15 10	...	...	0 2 0	
	Charcoal	maunds.	17½	3 8 0	...	per maund.	0 3 2	
Bahramghat depôt,	Sál and a few asna and haldu ...	137	8,371·56	16,103 14 9	117 8 9	...	1 14 9	
	Scantlings, sál, &c. ...	...	55,153·00	1,04,487 0 10	...	...	1 14 3	
	Off-cuts (sál)	maunds.	2,762½	441 15 2	...	per maund.	0 2 6	
	Ballis (miscellaneous) ...	1,119	...	136 11 0	0 1 11·4	...	...	
	Firewood	maunds.	57,364	13,496 6 7	...	per maund	0 3 9	
	Charcoal	do.	903½	679 2 6	...	do.	0 12 0	
	Large boats	1	...	50 0 0	50 0 0	...	...	
	Hire of boats from P. W. D., Oudh,	...	...	1,833 15 2	...	...	...	
Bahraich Division,	Canoes	94	...	3,121 0 0	33 3 2	...	...	
	Hire of boats	...	...	6 0 0	...	...	..	

Total amount realized and due	1,50,023·10 11	See prescribed Form No. 51.
Deduct amount due but not realized during the year ...	25,827 8 0	
Balance ...	1,24,196 2 11	
Add amount realized on account of former years ...	9,893 14 0	
Total revenue ...	1,34,090 0 11	

DATED NAINI TAL,
The 11th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX XVI.

OLD FORM No. 23, FOR NEW FORM 60.

FOREST DEPARTMENT, OUDH.

Abstract showing the value of Timber Stock, 1876-77.

						Rs. a. p.	Rs. a. p.	Rs. a. p.
KHERI DIVISION—								
Logs, Soheli Depôt—logs	...	...	...	...	5,167 @ 40 c. ft.	@ 0 6 0 per c. ft.	77,505 0 0	1,91,603 12 0
" " "	...	...	...	...	1,549 @ 40 "	@ 0 8 0 " "	30,980 0 0	
" " "	...	...	...	...	1,055 @ 40 "	@ 0 12 0 " "	31,650 0 0	
Bahramghat Depôt sál "	...	...	...	...	1,029 @ 50 "	@ 1 0 0 " "	51,450 0 0	
Asna "	...	...	...	...	1 @ 50 "	@ 0 6 0 " "	18 12 0	
In transit "	...	...	...	...	8			
Total				...	8,809			
Bahramghat Depôt, sál scantlings	...	...	...	...	= c. ft. 75,853·85	@ 0 12 0 per c. ft.	61,797 10 10	61,797 10 10
" Asna "	...	...	...	...	= " 6,543·06			
" Ballis	...	...	...	...	778 ...	@ 0 2 0 each	...	97 4 0
" Firewood	...	...	...	...	= maunds 324	@ 16 0 0 per 100 maunds	...	51 13 5
" Charcoal	...	...	...	...	= " 1,788¼	@ 40 0 0 per " "	...	715 4 9
BAHRAICH DIVISION—								
Canoes	...	...	...	...	781 ...	@ 20 0 0 each	...	15,620 0 0
						Total value,	...	2,69,885 13 0

		Rs. a. p.
Value of stock, 1876-77	...	2,69,885 13 0
" " 1875-76	...	2,12,125 14 10
Increase in value	...	57,759 14 2

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.

APPENDIX XVII.

OLD FORM No. 24, FOR NEW FORM 60.

FOREST DEPARTMENT, OUDH.

Quantity and value of Stock in hand at Depôts at the commencement and close of the year 1876-77.

Description of stock.	*In Depôts on 1st April*, 1876.							*In Depôts on 31st March*, 1877.							Remarks.
	Pieces.	Average.	Cubic feet.	Rate.	Value.			Pieces.	Average.	Cubic feet.	Rate.	Value.			
		Cubic ft., &c.		Per c. ft, &c.	Rs.	a.	p.		Cubic ft., &c.		Per c. ft. &c. as. as. as. Re.	Rs.	a.	p.	
Logs ...	6,359	40,' 45' & 50'	2,54,395'	0-6-0 0-8-0 & 1	1,20,813	2	0	8,809	40' & 50'	362,340	6, 8, 12 & 1	1,91,603	12	0	See old form 23, abstract of value of timber stock, 1876-77.
Sleepers (sál) ...	614	3·46 each	2,130'·58	0-8-0	1,065	4	7	...	Cubic feet	82,396·91	0-12-0 per c. ft.	61,797	10	10	
Scantlings (do.)...	See c. feet	...	6,568·62	1-0-0	6,568	9	11								
			32,267·67	1-4-0	40,334	9	3								
Do. inferior timber,	Ditto	...	60,695·74	0-5-3	19,997	1	7								
Off-cuts (sál) ...	Maunds	...	3,579·50	at Rs. 16 per 100 maunds.	572	11	6	...	...	...	...	...			
Ballis ...	1,897	...	...	at annas 2 each	237	2	0	778	...	...	at annas 2 each	97	4	0	
Firewood ...	Maunds	...	26,513	at Rs. 16 per 100 maunds.	4,242	1	3	...	Maunds	324	at Rs. 16 per 100 maunds.	51	13	5	25,000 maunds firewood not brought to value being on banks of rivers.
Charcoal ...	,,	...	1,788¼	at Rs. 40 per ditto.	715	14	9	...	Ditto	1,788¼	at Rs. 40 per ditto.	715	4	9	4,723 maunds charcoal ditto ditto.
Canoes ...	879	...	...	at Rs. 20 each	17,580	0	0	781	...	...	at Rs. 20 each	15,620	0	0	
Total, Rs. ...	...	...	...	...	2,12,125	14	10	...	...	...	...	2,69,885	13	0	

DATED NAINI TAL,
The 27th September, 1877.

E. WOOD, CAPTAIN.
Conservator of Forests, Oudh.

APPENDIX XVIII.

List of Buildings.

No.	Name.	Property of	Rent when occupied per month.	Amount paid by officer during the year.			Remarks.
				Rs.	a.	p.	
1	Head-quarters Lakhímpur Office and Rest-house,	Forest Department ...	Rs. 25 by officer and 25 for office	165	13	4	
2	Do. Bahraich do. do. ...	Ditto	,, 30 do. and 20 do., ...	86	0	0	
3	Timber depôt, Bahramghat	Public Works Department,	Free	...			
4	Forest 1st Class Kheri, Dudua ...	Forest Department ...	,, ...	...			Rented from Public Works Department, with workshops: nothing paid by Officer.
5	Do. do. Suthiana ...	Ditto	,, ...	...			
6	Do. do. Fort Gowri Shah,	Ditto	,, ...	...			
7	Do. do. Shitabighat ...	Ditto	,, ...	...			
8	Do. 2nd Class, Bahraich Nishangarah ...	Ditto	,, ...	...			
9	Do. do. Motipur ...	Ditto	,, ...	...			
10	Do. do. Charda ...	Ditto	,, ...	...			
11	Do. do. Kakardari ...	Ditto	,, ...	...			
12	Do. do. Bhinga ...	Ditto	,, ...	...			
13	Do. 3rd Class Gonda, Bhagwanpur ...	Ditto	,, ...	...			
			Total Rs. ...	251	13	4	

DATED BAHRAMGHAT,
The 29th October, 1877.

E. WOOD, CAPTAIN,
Conservator of Forests, Oudh.